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1928-1929 Catalog

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Extract from Speech of Cardinal Gibbons at the Commencement Exercises, June 18, 1907.

"Christian schools, like Holy Cross College, are indispensable for the moral and mental development of the rising generation."

"The defences of our Commonwealth are not material but spiritual. Her fortifications, her castles, are her institutions of learning. Those who are admitted to the college campus tread the ramparts of the State. The classic halls are the armories from which are furnished forth the knights in armour to defend and support our liberty. For such high purposes has Holy Cross been called into being. A firm foundation of the Commonwealth. A defender of righteousness. A teacher of holy men. Let her turrets continue to rise, showing forth the way, the truth, and the light."

*"In thoughts sublime that pierce the night like stars,
And with their mild persistence urge man's arch
To vaster issues."*

(Extract from the address of His Excellency, the Hon. Calvin Coolidge, delivered at the Commencement exercises, Holy Cross College, June 25, 1919.)

The Catalogue of Holy Cross College

EIGHTY-SIXTH YEAR



1928-1929

WORCESTER, MASS.
PUBLISHED BY THE COLLEGE

1929

Corporate Title:

*"The Trustees of the College of the Holy Cross
in Worcester, Massachusetts."*

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CALENDAR FOR 1929-1930

*All holidays occurring within the academic year 1929-1930
are indicated by heavy type*

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COLLEGE CALENDAR

1929

Monday,	Sept. 16—Entrance Examinations. Registration.
Tuesday,	Sept. 17—Entrance Examinations. Registration.
Wednesday,	Sept. 18—Registration.
Thursday,	Sept. 19—Registration. Formal Opening of First Semester. Veni Creator and Benediction in the Chapel. Schola Brevis.
Monday,	Sept. 23—Registration of Senior Class.
Tuesday,	Sept. 24—Formal Opening of First Semester for Senior Class.
Monday,	Sept. 30—First meeting of Sodalities.
Wednesday,	Oct. 2—First meeting of Debating Societies.
Saturday,	Oct. 12—Columbus Day; holiday.
Sunday,	Oct. 27—Annual Retreat.
Friday,	Nov. 1—All Saints' Day; holy day.
Saturday,	Nov. 2—All Souls' Day.
Wednesday,	Nov. 13—Marks for First Quarter close.
Saturday,	Nov. 16—Reading of Quarterly marks.
Thursday,	Nov. 28—Thanksgiving Day; holiday.
Sunday,	Dec. 8—Feast of Immaculate Conception.
Wednesday,	Dec. 18—Christmas holidays begin.

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Thursday,	Jan. 2—Christmas holidays end for Freshman, Sophomore and Junior classes.
Friday,	Jan. 3—Semester examination in English Composition. Semester examination in Religion for Junior class. Christmas holidays end for Senior class.
Saturday,	Jan. 4—Semester examination in Religion for Senior class.
Wednesday,	Jan. 15—Marks for Second Quarter close.
Thursday,	Jan. 16—First Semester review.
Saturday,	Jan. 18—Reading of Quarterly marks.

- Wednesday, Jan. 22—Semester examinations in Mathematics 1, 2 and 3; 9.00-11.00 A. M.; Semester examinations in Mathematics 5 and 8; 1.00-3.00 P. M.
- Thursday, Jan. 23—Semester examinations in Religion 1, 3 and 5; 9.00-11.00 A. M.
- Friday, Jan. 24—Semester examinations in English 21, English 17, Economics 1, Education 13 and Descriptive Geometry; 1.00-3.00 P. M.
- Saturday, Jan. 25—Semester examination in Latin Composition; 9.00-11.00 A. M.
- Monday, Jan. 27—Semester examinations in Greek Composition and Physics 2 and 3; 9.00-11.00 A. M. Semester examinations in Jurisprudence 4 and 5, Education 12, Education 9, Economics 6, Economics 5, Sociology 4, and History 6 and 7; 1.00-3.00 P. M.
- Tuesday, Jan. 28—Semester examinations in Latin Literature, English 14, English 9, History 8; 9.00-11.00 A. M. Semester examinations in Modern Language, Journalism 8 and 9, Education 10, Education 14 and Music; 1.00-3.00 P. M.
- Wednesday, Jan. 29—Semester examination in Greek Literature; 9.00-11.00 A. M. Semester examinations in Physics 6, Economics 8, Education 17, and History 9; 1.00-3.00 P. M.
- Thursday, Jan. 30—Semester examination in English Literature; 9.00-11.00 A. M.
- Friday, Jan. 31—Semester holidays begin.
- Tuesday, Feb. 4—Formal opening of second Semester.
- Saturday, Feb. 22—Washington's Birthday; holiday.
- Wednesday, Mar 5—Ash Wednesday.
- Saturday, Mar. 15—Marks for Third Quarter close.
- Saturday, Mar. 22—Reading of Quarterly marks. Announcement of subjects for prize essays.
- Saturday April 12—Easter recess begins at noon.
- Saturday, April 19—Patriots' Day.
- Wednesday, April 23—Easter recess ends for Freshman, Sophomore and Junior classes.
- Thursday, April 24—Easter recess ends for Senior class.

College Calendar

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Thursday,	May	1—B. J. F. Debate at 8.00 P. M.
Friday,	May	2—Semester examinations in Education 15, Education 16, Education 17, and Education 18; 1.00-3.00 P. M.
Monday,	May	5—Semester examinations in Education 12, Education 9, English 21, Jurisprudence 4 and 5, Mathematics 5, Mathematics 8, Sociology 4, Economics 3 and Economics 6; 1.00-3.00 P. M.
Tuesday,	May	6—Semester examinations in Education 10, Education 13, English 18, Physics 6, Journalism, Economics 5, Economics 8, History 9; 1.00-3.00 P. M.
Wednesday,	May	7—Semester examinations in Education 14 and Music. Philomathic Debate at 8.00 P. M.
Monday,	May	12—Interclass contest in Elocution and Oratory.
Wednesday,	May	14—Marks for Fourth Quarter close.
Thursday,	May	15—Semester examinations in English Composition and Biology 2; 9.00-11.00 A. M.
Wednesday,	May	28—Semester examinations in Mathematics 1, 2 and 3, Physics 1; 9.00-11.00 A. M. Semester examinations in Modern Language; 1.00-3.00 P. M.
Thursday,	May	29—Feast of the Ascension; holy day.
Friday,	May	30—Memorial Day, holiday.
Monday,	June	2—Senior Philosophy Oral examinations begin. Semester examinations in Religion; 9.00-11.00 A. M.
Tuesday,	June	3—Semester examination in Latin Composition; 9.00-11.00 A. M. Semester examination in History; 1.00-3.00 P. M.
Wednesday,	June	4—Semester examinations in Greek Composition, Physics 2, Physics 3, Biology 3; 9.00-11.00 A. M.
Thursday,	June	5—Semester examinations in English 9, English 14 and Latin Literature; 9.00-11.00 A. M.
Friday,	June	6—Junior Philosophy oral examinations begin. Semester examination in Greek Author; 9.00-11.00 A. M.

Saturday,	June 7—Semester examination in English Literature.
Monday,	June 9—Oral examinations in Languages begin.
Friday,	June 13—Senior Retreat begins.
Sunday,	June 15—Baccalaureate Sermon at 8.00 P. M.
Tuesday,	June 17—Alumni Day.
Wednesday,	June 18—Commencement.

OFFICERS OF ADMINISTRATION

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REV. DAVID J. MORAN, S.J.	Assistant Professor of Poetry
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REV. WILLIAM E. MURPHY, S.J.	Dramatics
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JAMES H. NESTOR, A.B.	Assistant in Physics
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FOSTER STEARNS, A.M.	. . .	<i>Librarian</i>
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REV. JOHN E. WELCH, S.J.	. . .	<i>Assistant Professor of Philosophy</i>
REV. JOHN D. WHEELER, S.J.	. . .	<i>Dean of Discipline</i>

Eighty-Sixth Year
College of the Holy Cross
Worcester, Mass.

CONDUCTED BY THE FATHERS OF THE SOCIETY OF JESUS

GENERAL STATEMENT

HISTORICAL

The College of the Holy Cross was founded in the year 1843, by the Rt. Rev. Benedict Joseph Fenwick, second Bishop of Boston, and is the oldest Catholic College in New England.. It had long been a cherished desire of Bishop Fenwick to establish in his diocese, which then included the City of Worcester, an institution for the higher education of Catholic young men. In bringing about the realization of this desire, he was aided by the Rev. James Fitton, who had, as early as 1838, established the Seminary of Mt. St. James on the hill which now bears that name, but was then known as Pakachoag, "Hill of Pleasant Springs." This institution, with its sixty acres of land, Father Fitton presented to the Bishop in 1843, and on this site the distinguished prelate determined to build his college. He gave it the name of his cathedral, with the motto and emblem of the Boston diocese—a cross in the heavens, as it appeared to the Emperor Constantine, with its historic legend.

The fact that the site was a gift was not the only consideration that influenced the Bishop in his selection. The healthfulness of the location and the natural beauty of the surrounding scenery were controlling motives. The spot, too, was considered at the time consecrated in local history. Near it the first humble wigwam church of Worcester had been erected by John Elliot for his Indians in 1674. The Fathers of the Society of Jesus, who had long been estab-

lished in Maryland, were invited to organize the courses of study according to the curriculum of their college at Georgetown, in the District of Columbia, and to take entire charge of the teaching.

On the second day of November, 1843, classes were organized in what was then known as the "Seminary of Mt. St. James," and were there continued until January 13th, 1844, when the first college building was completed. The cornerstone of the latter was laid by Bishop Fenwick on June 21st, 1843. Speaking of this event, the *Catholic Expositor* of August, 1843, describes the purpose of the new institution as "the advancement of the arts, the cultivation of the sciences and the promotion of patriotism, morality, virtue and religion." The same publication describes the first building as a brick structure 104 feet in length and four stories in height "with a fine portico on the centre of the front." The first annual exhibition was held July 29th, 1844. The saintly Bishop Fenwick died August 10th, 1846, and was buried, in compliance with his own wish, in the college cemetery. He had always taken a deep interest in the success of the college, and a few days before his death, the 6th of August, he had ceded to the Fathers full control and possession of the institution, with the buildings and grounds, free of incumbrance.

On the afternoon of July 14th, 1852, eight days before the annual Commencement, a fire broke out, which destroyed the whole of the central building. This calamity not only suspended the class exercises, but threatened the very existence of the institution. The Rt. Rev. John B. Fitzpatrick, who was then Bishop of Boston, sympathized heartily with the Faculty, and determined that the college, which had been a monument to his predecessor's zeal for Christian education, should not perish. On the 3rd of October, 1853, the college, enlarged and remodeled, was again ready to receive students. The effect, however, of such a calamity on the young college is shown by the interruption in graduating classes from 1852 to 1858.

INCORPORATION

A class of the students, who had entered in 1843 and 1844, had advanced to "Philosophy," by which name the Senior year was then known, and were ready for graduation in 1849. The college, therefore, in that year applied to the Commonwealth of Massachusetts for the privilege of incorporation. The petition for a charter was presented in March, 1849, and was acted upon early in April. The petitioners were disappointed. The charter was not granted until the year 1865, when the sobering influence of the Civil War had caused all differences of opinion in regard to the college to be set aside.

If the students were disappointed in the hope of receiving their diplomas from their Alma Mater, they were not deprived of the benefits of graduation. Georgetown College, in the District of Columbia, conferred the degrees on all who were graduated from 1849 to 1852 and from 1858 to 1865. How the Faculty and students bore their disappointment at this time may be judged from the testimony of His Excellency Governor Alexander H. Bullock, who said at the Commencement in 1868, alluding to the unsuccessful attempt to obtain a charter, that he had been deeply impressed by the manner in which the friends of the college hid all signs of disappointment and exhibited a patience which, under such circumstances, he would hardly have dared to expect from many Christian denominations.

It was during the Civil War, as intimated above, that the college, besides having become endeared to the Catholics of New England, had also attracted the favorable notice of many non-Catholics. The most distinguished among those who manifested an interest in the college at this period, was His Excellency the War Governor, John A. Andrew. He visited and examined the institution during the school term of 1862, and presided at the annual Commencement of that year. On the latter occasion, he spoke of the college in the highest terms, and the sincerity of his praise was unmistakable. He had taken pains to acquaint himself with the

methods of teaching employed at the college, and was qualified to bear testimony to their excellence. The impression made upon the Governor during these two visits secured his interest in behalf of a charter, and he more than once urged the Faculty to apply for it.

The interesting event of incorporation was not long delayed. A petition was presented to the Legislature in the session of 1865. A bill was framed to meet the exigencies of the case, read a third time in the House of Representatives on March 21st, and passed without opposition. The Senate confirmed the action of the lower body on March 23rd, and on the following day the Governor affixed his signature.

The charter granted to "The Trustees of the College of the Holy Cross, in Worcester, Massachusetts," with other privileges, the power "to confer such degrees as are conferred by any college in this Commonwealth, except medical degrees." This placed the college on an equality, before the Commonwealth, with all other institutions of a similar character. It was no little gratification to the Faculty that their earnest devotion to the cause of religion and education was acknowledged by the State, and it was a source of pride to the students to be able to receive from their Alma Mater, in her own words and over her own seal, the testimony of her approval.

It is gratefully recorded here that the college was particularly indebted to Hon. Alexander H. Bullock for many acts of courtesy. As a resident of Worcester, he had always taken a neighborly interest in the college, while speaker of the House he offered to present the petition for a charter, and while Governor of the State he presided at three successive Commencements. His example has been followed by most of the Governors of the Commonwealth since his time, particularly by Governor Ames, who founded a scholarship at the college, and Governor Curtis Guild, Jr., who attended five successive Commencements, at all of which he delivered memorable addresses, manifesting a cordial interest in the institution.

LOCATION

The seat of the college is on one of the highest of the eminences surrounding the City of Worcester. Towards the north, this "Hill of Pleasant Springs" commands an extensive and most delightful view of Worcester, at the time of the founding of the college a town of hardly 10,000 inhabitants, now a bustling city of more than 190,000, and, next to Boston, the largest city in Massachusetts. Over and beyond its many towers and spires and other elevations, looms aloft in the background, against the northern horizon, the summit of Mt. Wachusett, the second highest point in Massachusetts. The educational character of the environment is indicated by the prominent sites of Clark University, Worcester Polytechnic Institute, the State Normal School, Worcester Academy, and seven local High Schools, three of these under Catholic control. The view thus afforded of the busy city, with its succession of hills and intervening valleys, makes the location of Holy Cross College most charming and interesting. To this delightful prospect, exceptional advantages of pure air and perfect drainage are added by the high elevation, while the graceful terraces to the north and west of the college buildings furnish recreation grounds that are unsurpassed in every respect. Impartial visitors do not hesitate to declare that for healthfulness of location and for educational environment Holy Cross is exceptionally favored.

BUILDINGS

The old buildings, whose accommodations satisfied the student of a quarter of a century ago, have been enlarged and improved in many ways, and new buildings have been constructed in recent years.

FENWICK HALL

An improvement which at the time was considered of vast importance was the raising and extending of the east wing

of the main building, Fenwick, in the spring of 1875. This wing, the only part of the building spared by the fire in 1852, gave place in time to a structure one hundred and twelve feet long, with an east frontage of ninety feet. The first and second stories are used for the students' dining halls; while the Sodality chapel is on the third floor and occupies the space of two stories. Adjoining this wing, on the southeast corner, is the infirmary.

O'KANE BUILDING

A later and more modern extension, now known as "the O'Kane Building," was completed in the spring of 1895, and formally opened in September of the same year. In the basement is the students' recreational hall—most modern in every detail. The chemistry department is provided with all the necessary conveniences for work in general, analytical and organic chemistry. The lecture-rooms and the six laboratories are specially designed and constructed for the purposes for which they are intended. The class-rooms, on the two floors above the recreational hall, are spacious and lightesome, and the corridors, long, wide and cheerful. The two floors above the class-rooms are reserved for the private rooms of students. The rooms are pleasantly situated, with east and west exposures and are equipped with all modern conveniences.

ALUMNI HALL

A more recent building is "Alumni Hall," which was opened in September, 1905. It contains nearly one hundred living rooms for students, with hot and cold baths. The lower floors also provide ample space for the enlarged Physics department, besides a new instrument room, museum, and laboratories. The Department of Physics occupies two floors in the northeast corner. The physics lecture-room, capable of seating over 90 students on elevated tiers

of lecture chairs, is particularly well lighted and is equipped for projection work with the lantern. The lecture table is provided with the latest and most approved conveniences, including the alternating and direct current. The large apparatus-room, adjoining the lecture room, contains the requisite instruments for experiment and demonstration in the various branches of physics. The laboratories on the floor below the lecture room, with a floor space of 2400 square feet, are capable of accommodating classes of fifty students in Physics and Mechanics. The apparatus is of the precision type and designed especially for quantitative work in mechanics, heat, light, sound and electricity. The building is entirely fireproof, provided with the most modern heating and ventilating equipment.

BEAVEN HALL

A late addition to the college buildings is "Beaven Hall," the generous gift of the late Right Reverend Thomas D. Beaven, D.D., and the clergy of the Springfield diocese. This new building was opened in September, 1913. Sixty-seven living rooms for students occupy the three upper floors, while the lower floor houses the Biology and Geology Departments. The building is entirely fireproof and equipped with the latest improvements for lighting, heating and ventilation.

LOYOLA HALL

In September, 1922, Loyola Hall, one of the most modern of college buildings, was opened to the Senior Class. The building, similar to Alumni Hall, is fireproof throughout. It contains nine class rooms on the two lower floors and almost one hundred living rooms on the three upper floors.

MEMORIAL CHAPEL

At the eastern extremity of the campus, majestically overlooking the college dormitories, is St. Joseph's Chapel,

a monument to Holy Cross men who paid the supreme sacrifice for their country.

DINAND LIBRARY

The Dinand Library, a monument to the intellectual history of Holy Cross College, was formally opened on Wednesday, November 2nd, 1927. The building occupies the space between O'Kane Hall and Beaven Hall, and has accommodations for more than 350,000 volumes. On the upper floor of the building are found the offices of the Heads of several Departments.

STADIUM

The stadium, begun in the summer of 1924, is a horse-shoe-shaped structure built around the old concrete stands and opened on the west side of the field facing the baseball diamond. The stadium, when completed will have a seating capacity of 35,000. At present it will accommodate about 18,000 persons.

THE COLLEGE YEAR

The College Year begins on the nineteenth of September and is continuous throughout two semesters of approximately eighteen weeks each. At the termination of each semester examinations are held, upon which rests the success or failure of the student in the work of the semester. Following the first semester is a brief vacation, at the end of which the second semester is formally begun.

EDUCATIONAL SYSTEM

The system of education is the one in use in all the colleges of the Society of Jesus, and is guided by the principles laid down in the famous *Ratio Studiorum*. This body of rules and suggestions has been elaborated by centuries of experience and has been judged worthy of attentive study

and hearty approbation by the ablest scholars. One of its greatest advantages is that it secures, what is an essential requisite for success in educational work, natural, thorough, and effective methods of teaching, employed uniformly by all the teachers.

It is not a system of ever-changing theory and doubtful experiment, but one on which have been built the characters of the world's best scholars and statesmen for centuries. It meets the demand for modern improvements by wise adaptation and readjustment. Instead of abolishing prescribed studies and increasing elective courses, it advocates a wise, deliberate and prudent election *by men whose profession is education*, not an unwise, sudden and rash choice by *inexperienced youth just entering on the process of education*.

The natural sciences and modern languages are by no means overlooked or neglected in this system, but the ancient languages and their literatures are still retained as prescribed studies, and, with mathematics and philosophy, form the "essential trinity of courses," which Prof. Ladd of Yale rightly considers "absolutely necessary for a truly liberal education."

The importance of the classics, even for those who intend to specialize in mathematics or the natural sciences, was emphasized by a man who stood at the head of the engineering profession, the late Dr. Charles F. Steinmetz, in these words: "It is my opinion that the neglect of the classics is one of the most serious mistakes of modern education and that the study of the classics is very important and valuable, and *more so in the education of the engineer* than in most other professions, for the reason that the avocation of an engineer is specially liable to make a man one-sided. . . . It is true that the classics are not necessary if the aim is to fit a student to *ply the trade of engineer*, as that of plumber or boilermaker, but such learning of the engineering trade can hardly be called *receiving an education*, and certainly does not fit the man to perform intelligently his

duties as citizen of the republic during the stormy times of industrial reorganization which are before us."

After the completion of such a course as is here given, the graduate is not sent to the theological seminary without any knowledge of the language in which the New Testament was written, or the methods of philosophical reflection and their bearing upon the problems of life and destiny. He is not sent to the medical school without some knowledge of physics and chemistry and some idea of the moral responsibility of the physician and surgeon. He is not sent to the law school without an intelligent grasp of the ethical nature and development of man and of the logical processes which make for and characterize sound judgment. He is not sent to the profession of teaching without some training for success in grasping truth and imparting it to others, some more intimate knowledge of the responsibility of a teacher than he can get from a few vague talks on pedagogy, some more extensive knowledge of psychology than may be acquired by a brief course in "child study." On the contrary, he is sent out from his college so uniformly equipped and harmoniously developed in character that he is prepared to take up and prosecute any career, or even get more pleasure out of a life of leisure than a man who has missed such a preparation. Even as an equipment for a business career, such a preparation, as ex-President Low of Columbia testifies, "would make him a power in the business world beyond all his compeers who had not been so favored."

Finally, this system does *not* meet the demand of the multitude who are simply anxious to "get through college as soon as possible," but it does make profound thinkers, safe guiders, clear writers, logical pleaders and cultured gentlemen.

RECITATION HOURS

The morning recitation hours are from 9.00 to 11.40, the afternoon hours from 12.20 to 3.00. Punctual attendance

of students is so insisted on that late students are not admitted to class. Eighteen hours a week are given to lectures in the Senior year, twenty in Junior, twenty-three in Sophomore, and twenty-six in Freshman year.

SESSIONS AND HOLIDAYS

The year is divided into two terms: the first term from September to February, the second from February to the early part of June. Recesses are granted at Christmas and Easter: the former begins at noon on the 18th of December and ends on the evening of the 2nd of January; the latter begins at noon on Saturday, April 12, and ends on the evening of the first Wednesday after Easter. The limits of these recesses cannot be extended without serious detriment to a student's class standing. Parents and guardians are therefore requested not to sanction or to ask for such extension. They are reminded, also, that exceptions made in favor of individuals are unfair to other students and injurious to discipline.

The ordinary holidays are as follows: Holy Days of obligation, state and national holidays, four days after the mid-year examinations and retreat holiday.

SCHOLARSHIP HONORS AND AWARDS

The College recognizes high scholarship honors in the following ways: gold and silver medals are awarded to the highest ranking students in Junior, Sophomore and Freshman years; in the Senior year the student obtaining the highest rank is awarded his degree "with the greatest distinction;" while the College confers upon those attaining an average of ninety per cent, degrees "with great distinction," and upon those attaining an average of eighty-five per cent, degrees "with distinction."

The honors and prizes awarded at the close of the year are determined by the recitations of the entire year and the mid-year and final examinations. The average for recita-

tions and examinations must be at least 90 per cent to win a medal or premium; but honorable mention is made of those who attain 85 per cent or more. As no allowance will be made for absence, parents or guardians who permit their sons or wards to remain at home beyond the period allotted for vacation or recess, cannot expect to see them hold distinguished places in their classes. The standing of the students in their respective classes is publicly announced quarterly.

DISQUALIFICATION

Each student at the end of his respective year, must have acquired as credits necessary for graduation, the number of credits which that specific year offers as graduation credits. A student lacking in this number of credits is obliged to remove that deficiency before he can be considered a candidate for a degree.

CONDUCT OF STUDENTS

Students are expected to manifest both within and outside of the College the respect for order, morality, personal honor and the rights of others, that is required of good citizens. Failure to do this will necessitate withdrawal from the College. The College reserves the right to dismiss a student without any definite accusation.

STUDENT WELFARE

PHYSICAL TRAINING

While attending to the mental development of the student and safeguarding his moral character, the college authorities have not overlooked the importance of physical training. The student is provided with football and baseball fields, running track and tennis courts. Not only are physical instructors and experienced coaches and trainers, pro-

vided, but all this is under the supervision and direction of a member of the faculty, who will see that the students do not become so engrossed in athletics that their studies may be neglected or their health suffer in any way.

With regard to all forms of college activities the policy of the college authorities has always been that the student's first duty in college is attention to study, and that no other student activity should be allowed to interfere with this main purpose of college life.

MORAL TRAINING

One of the most important features in the system of Jesuit education is the formation and training of character. Hence a closer supervision is exercised over the students than is usual, at the present day, in most of the large colleges; but an effort is made to exclude from this supervision every harsh feature. The professors live with the students, mingle with them constantly, interest themselves in their sports, direct their studies and in every way assume the relation rather of friends than of taskmasters. This constant, familiar, personal communication, on kindly terms, between professor and student, is a powerful factor in the formation of character. The age of the student is also considered, and in the later years of his college course a large degree of liberty is granted him. With regard to younger students the supervision is as close as any parent or guardian could reasonably expect. With regard to all, the enforcement of discipline, while mild and considerate, is unflinchingly firm, especially when there is question of the good of the student body or of the reputation of the college.

As the greatest help in maintaining good discipline is found in the appeal to conscience and religion, special attention is paid to religious instruction. Christian doctrine

is one of the prescribed studies in every class, supplemented by weekly lectures and conferences. The students are required to comply with their religious obligations regularly, and to make annually a spiritual retreat of three days. Sodalties and other Associations are also provided for the fostering of piety.

The consequence of the neglect or exclusion of such religious training of the heart, the conscience and the will, in preparation for the duties and struggles of life, was emphasized nearly a century ago by Daniel Webster. In his famous speech in the Girard case, he said. "It is a mockery and an insult to common sense to maintain that a school for the instruction of youth from which Christian instruction by Christian teachers is sedulously and religiously shut out is not deistic and infidel in its tendency."

PHYSICAL EXAMINATION

Each student is obliged to pass a physical examination before he will be allowed to begin class work. The College Medical Officer with his assistants will examine the students during the registration period.

MEDICAL CARE

The College Medical Officer, Dr. Carney, has direct supervision of all matters affecting the student body. All cases of illness, especially communicable diseases, should be promptly reported to him or his assistants. Dr. Carney, as College Physician, holds office hours daily in the College Infirmary.

DORMITORY ACCOMMODATIONS

In the College dormitories there are three hundred and thirty double rooms, nine suites, and one dormitory, affording accommodations for seven hundred and seventy-three students.

Distribution of rooms for Freshmen will be made according to the scholastic merits of candidates, determined from High School records and the Entrance Examinations.

The practice of making a deposit for the reservation of a room in the College dormitories for Freshmen has been discontinued. No such deposit will be accepted in advance.

ADMISSION TO THE COLLEGE

ENTRANCE REQUIREMENTS FOR THE VARIOUS DEGREES

BACHELOR OF ARTS: Fifteen units as follows: four in Latin; two in Algebra; one in Plane Geometry; four in English; two in a Modern Language other than English; two in History (Ancient and either American or English).

BACHELOR OF PHILOSOPHY: Fifteen units as follows: four in English; two in Algebra; one in Plane Geometry; two in History (Ancient and either American or English); two in a Modern Language other than English; four in elective subjects, either listed or unlisted, provided the unlisted subject is not a commercial or manual training subject.

BACHELOR OF SCIENCE: Fifteen units as follows: four in English; two in Algebra; one in Plane Geometry; one-half in either Solid Geometry or Plane Trigonometry; two in a Modern Language other than English; one in Science (Chemistry or Physics); four and one-half in elective subjects either listed or unlisted, provided that the unlisted subject is not a commercial subject.

ENTRANCE UNIT: A unit represents a year's study of any subject in a secondary school, constituting approximately a quarter of a full year's work. It is assumed that the length of the school year is at least thirty-eight weeks, that a period is at least forty-five minutes in duration, and that the study is pursued for at least five periods a week.

LISTED SUBJECTS

	<i>Units</i>		<i>Units</i>
English I (Grammar and Composition)	2	Advanced French	1
English II (Literature)	2	Elementary German	2
Ancient History	1	Intermediate German	1
American History	1	Advanced German	1
English History	1	Elementary Spanish	2
American History and Civil Government	1	Intermediate Spanish	1
Civil Government	½	Advanced Spanish	1
Latin (Elementary)	1	Elementary Algebra	1
Latin (Caesar)	1	Intermediate Algebra	1
Latin (Cicero)	1	Plane Geometry	1
Latin (Virgil)	1	Solid Geometry	½
Greek (Elementary)	1	Plane Trigonometry	½
Greek (Xenophon's Anabasis)	1	Chemistry	1
Greek (Homer's Iliad)	1	Physics	1
Elementary French	2	Botany	1
Intermediate French	1	Zoology	1
		Astronomy	1
		Physiography	1

UNLISTED SUBJECTS: All unlisted subjects offered as entrance credits must be subjects other than commercial and manual training subjects and must be recognized by the secondary school as credits towards graduation.

METHODS OF ADMISSION TO THE FRESHMAN CLASS.

(PLAN A.)

Admission by Certificate.

Certificates, admitting candidates without examination, will be accepted from secondary schools which have been approved by the Board of Admissions. Secondary schools seeking this approval should secure from the Director of the Board of Admissions the form necessary for making application for this privilege.

A candidate to be admitted without examination must have been graduated from a secondary school which has

been approved by the College for the certificate privilege of admittance without examination; his scholarship standing for the last two years of his course must place him in the highest quarter of his class; he must have satisfactorily completed the units required by the College for admission to the course for which he is applying. Candidates seeking admission under this method should be sure that they fulfill these essential conditions.

(PLAN B)

Partial Certification

Candidates coming from an approved secondary school and failing to secure full certification may offer certified credits in one or more units required by the College for admission. Credit for the non-certified units may be obtained either by entrance examinations or by New York State Regents examinations with a grade of 75%. A candidate may take either the examinations conducted by the College or the examinations conducted by the College Entrance Board.

(PLAN C)

Admission by Entrance Examinations

All candidates not meeting the requirements outlined under either Plan A or Plan B must take entrance examinations in the units required by the College for admission. The candidates may take either the examinations conducted by the College or the examinations conducted by the College Entrance Board.

Entrance examinations are conducted by the College in June and September. All examinations, however, should be taken in June. Only in exceptional cases are candidates allowed to take the September examinations. Candidates making application for admission under this plan should file their applications on or before May 15, 1930.

The College Entrance Board will hold examinations in 1930 on the 16th, 17th, 18th, 19th, 20th and 21st of June, at nearly 400 points in the United States and abroad.

A list of places at which examinations will be held will be published about March 1, 1930. Requests that the examinations be held at particular points should be transmitted to the Secretary of the College Entrance Examination Board not later than February 1, 1930.

Detailed definitions of the requirements in all examination subjects are given in a circular of information published annually about December 1. Upon request to the Secretary of the College Entrance Examination Board a single copy of this document will be sent to any teacher without charge. In general, there will be a charge of twenty-five cents, which may be remitted in postage.

All candidates wishing to take these examinations must make application by mail to the Secretary of the College Entrance Examination Board, 431 West 117th Street, New York City. Blank forms for this purpose will be mailed by the Secretary of the College Entrance Examination Board to any teacher or candidate upon request by mail.

The applications and fees of all candidates who wish to take the examinations in June, 1930, should reach the Secretary of the Board not later than the dates specified in the following schedule:

For examination centers—

In the United States east of the Mississippi River or on the Mississippi, May 26, 1930.

In the United States west of the Mississippi River or in Canada, May 19, 1930.

Outside of the United States and Canada, except in Asia, May 5, 1930.

In China or elsewhere in the Orient, April 21, 1930.

Every application for examination which reaches the Secretary of the Board on or before the scheduled date should be accompanied by an examination fee of \$10.00, which may be remitted by postal order, express order, or draft on New York to the order of the College Entrance Examination Board.

An application which reaches the Secretary later than the scheduled date will be accepted only upon payment of \$5.00 in addition to the regular examination fee.

When a candidate has failed to obtain the required blank form of application the regular examination fee will be accepted if the fee arrive not later than the date specified above and if it be accompanied by a memorandum with the name and address of the candidate, the exact examination center selected, and a list of the subjects in which the candidate is to take the Board examinations.

Candidates who have failed to file applications for examination may be admitted by the supervisor to all examinations except the Scholastic Aptitude Test upon payment of a fee of \$5.00 in addition to the regular examination fee. Such candidates should present themselves at the beginning of the period of registration. They will receive from the supervisor blank forms of application which must be filled out and transmitted to the Secretary of the College Entrance Examination Board.

In order to exhibit their tickets of admission, to learn their examination numbers, and to obtain seats in the examination room, candidates should report for a morning examination at 8.45 and for an afternoon examination at 1.45. An examination will close for candidates admitted late at the same time as for other candidates. The examinations will be held in accordance with the time, Standard Time or Daylight Saving Time, observed in the local public schools.

No candidate will be admitted to the Scholastic Aptitude Test late, that is, after 9.00 A. M.

The Scholastic Aptitude Test, which will be held on the morning of Saturday, June 21, 1930, may be taken upon the completion of the school course or at the end of the third year of secondary school work. Each candidate desiring to take this test, even though he is to take no other examination, must file with the Secretary of the College Entrance Examination Board the usual application for ex-

amination. Application blanks will be sent to any teacher or candidate upon request by mail to the Board. If the Scholastic Aptitude Test is taken in connection with other examinations no additional fee is required; if taken alone the fee is \$10.00.

A week or more in advance of the Scholastic Aptitude Test each candidate who is to take the test will receive a booklet containing, with explanations and instructions, a specimen test, the blank spaces of which are to be filled in by the candidate. In order to secure admission to the test the candidate must present not only his ticket of admission, but also this booklet with the spaces filled in as requested. The supervisor will admit no candidate to the examination room without this booklet.

ADMISSION TO ADVANCED STANDING

A candidate seeking admission to advanced standing, unless coming from an approved institution of collegiate rank, will be examined in the studies required for entrance to Holy Cross College (unless admitted by certificate) and in those already pursued by the class which he desires to enter.

A candidate coming from an approved institution of collegiate rank may receive credit without examination for work done at that institution. He is obliged to present the same entrance credits as are required of students entering Holy Cross College without advanced standing, and is obliged to take all prescribed subjects in the course leading to the desired degree at Holy Cross College. The following credentials should be forwarded to the Registrar: a formal statement from the proper official of the institution previously attended, showing subjects accepted for entrance, subjects pursued at college, with their catalogue numbers.

SCHEDULE OF ENTRANCE EXAMINATIONS, JUNE, 1930

JUNE 4, 1930

Mathematics I (Elementary Algebra)	9.30 A. M.-11.30 A. M.
Mathematics II (Intermediate Algebra)	9.30 A. M.-11.30 A. M.
Mathematics III (Plane Geometry)	9.30 A. M.-11.30 A. M.
Mathematics IV (Solid Geometry)	9.30 A. M.-12.30 P. M.
Mathematics V (Plane Trigonometry)	9.30 A. M.-12.30 P. M.
Mathematics VI (Algebra, Plane Geometry and Solid Geometry)	9.30 A. M.-12.30 P. M.
Mathematics VII (Algebra, Plane Geometry and Plane Trigonometry)	9.30 A. M.-12.30 P. M.
French II (Elementary)	2.00 P. M.- 5.00 P. M.
Greek II (Xenophon's Anabasis)	2.00 P. M.- 4.00 P. M.
Greek III (Homer's Iliad)	2.00 P. M.- 4.00 P. M.
Greek IV (Xenophon's Anabasis and Homer's Iliad)	2.00 P. M.- 5.00 P. M.
German II (Elementary)	2.00 P. M.- 5.00 P. M.
Spanish II (Elementary)	2.00 P. M.- 5.00 P. M.

JUNE 5, 1930

Latin II (Caesar)	9.30 A. M.-11.30 A. M.
Latin III (Cicero)	9.30 A. M.-11.30 A. M.
Latin IV (Virgil's Aeneid)	9.30 A. M.-11.30 A. M.
Latin V (Caesar and Cicero)	9.30 A. M.-12.30 P. M.
Latin VI (Cicero and Virgil)	9.30 A. M.-12.30 P. M.
Chemistry	9.30 A. M.-12.30 P. M.
Physics	9.30 A. M.-12.30 P. M.
Biology	9.30 A. M.-12.30 P. M.
Zoology	9.30 A. M.-12.30 P. M.
Astronomy	9.30 A. M.-12.30 P. M.
Physiography	9.30 A. M.-12.30 P. M.
History	9.30 A. M.-12.30 P. M.

JUNE 5, 1930

English I (Grammar and Composition)	2.00 P. M.- 5.00 P. M.
English II (Literature)	2.00 P. M.- 5.00 P. M.
English III (English I and II combined)	2.00 P. M.- 5.00 P. M.

FEES

Candidates applying for admission to the College under Plan A are required to forward a matriculation fee of ten dollars with their application. (*Applications without the matriculation fee will receive no consideration.*) Matriculation fees will not be refunded unless application is refused by the Board of Admissions. Make check or money order payable to Treasurer, Holy Cross College.

Candidates applying for admission to the College under Plans B and C are required to forward with their application matriculation fee of ten dollars. Applications without the matriculation fee will receive no consideration. Matriculation fees will not be refunded unless application is refused by the Board of Admissions. In addition to the matriculation fee, a charge of ten dollars is made each candidate, for the privilege of taking entrance examinations. This fee should be forwarded upon the receipt of formal notification of the acceptance of application for entrance examination. Make check or money order payable to Treasurer, Holy Cross College.

ENTRANCE REQUIREMENTS

ENGLISH: *Four Units.* Preparation in English should fulfill these two objects: (1) the command of correct English, spoken and written; (2) accurate, intelligent and appreciative reading.

Grammar and Composition: A general review of the English grammar, emphasizing spelling, and grammatical accuracy. Principles of punctuation, sentences, paragraphing, and the whole composition with special emphasis given to the principles of narration, description and exposition. Written compositions comprising letter writing, descriptions, narrations and expository essays.

Literature: The aim in the course in Literature should be the training of the student in careful, intelligent, and appreciative reading in considerable amount.

A. BOOKS FOR STUDY. (From each group one selection is to be made.)

Group I. Shakespeare: Hamlet, Julius Caesar, Macbeth.

Group II. Coleridge: The Ancient Mariner; Tennyson: Idylls of the King; Scott: The Lady of the Lake; Milton: Il Penseroso, L'Allegro, Lycidas.

Group III. Irving: The Sketch Book; Addison and Steele: Sir Roger de Coverly Papers; Macaulay: Life of Johnson; Carlyle: Essay on Burns.

Group IV. Washington: Farewell Address; Webster: First Bunker Hill Oration; Burke: Speech on Conciliation with America, Bristol Speech.

B. BOOKS FOR READING. (From each group two selections are to be made.)

Group I. Dickens: David Copperfield, Oliver Twist, The Tale of Two Cities; Scott: Ivanhoe, Quentin Durward;

Hawthorne: The House of Seven Gables; Stevenson: Treasure Island, Kidnapped; George Eliot: Silas Marner; Parkman: Oregon Trail.

Group II. Shakespeare: King Lear, King Henry V, As You Like It, The Tempest, Merchant of Venice.

Group III. Keats, Wordsworth, Shelley: Selections; Bryant: Thanatopsis; Milton: Paradise Lost; Longfellow: Tales of a Wayside Inn.

Group IV. The New Testament; Macaulay: Lord Clive; Franklin: Autobiography.

FRENCH. ELEMENTARY. *Two units.* The work in Elementary French should comprise a careful drill in pronunciation, memorizing of colloquial expressions; the rudiments of the grammar, including the inflection of the regular and irregular verbs, the inflection of adjectives, participles, and pronouns, and plural nouns; word order; the reading of about 100 pages of an elementary reader, with daily practice in the translation of English prose into French.

FRENCH. INTERMEDIATE. *One unit.* The work in Intermediate French should comprise the reading of French literature; the taking of dictation in French; the translation into French of continuous English prose; a thorough drill in the rudiments of the grammar, with particular attention given to sentence construction, forms, pronouns, pronominal adjectives and all irregular verb forms.

FRENCH. ADVANCED. *One unit.* The course in Advanced French should comprise the reading of difficult prose and verse; class conversation in French; translation of English prose and verse into French; a thorough review of the rudiments of the grammar.

GERMAN. ELEMENTARY. *Two units.* The work in Elementary German should comprise a careful drill in pronunciation; memorizing of colloquial expressions; the

rudiments of the grammar, including the inflections of the articles, of nouns, of adjectives, of pronouns, and of the weak and more usual strong verbs; the uses of the more common prepositions; the uses of the modal auxiliaries; rules of syntax and word order; the reading of German prose authors; the translation of English prose into German.

GERMAN. INTERMEDIATE. *One unit.* The work in Intermediate German should comprise the intelligent reading of German Literature; the taking of dictation in German; the translation of continuous English prose into German; a thorough drill in the rudiments of the grammar, with particular attention given to the strong verbs, the use of the articles, cases, auxiliaries of all kinds, tenses and moods.

GERMAN. ADVANCED. *One unit.* The work in Advanced German should comprise the intelligent reading of German prose and verse; class room conversation; translation into German of English prose and verse; a thorough review of the rudiments of the grammar.

SPANISH. ELEMENTARY. *Two units.* The work in Elementary Spanish should comprise a careful drill in pronunciation; the memorizing of colloquial expressions; the rudiments of the grammar, including the conjugations of regular and irregular verbs, the inflections of nouns, adjectives, and pronouns; the elementary rules of syntax; the reading of Spanish prose authors; and the practice of writing English prose into Spanish.

SPANISH. INTERMEDIATE. *One unit.* The work in Intermediate Spanish should comprise the intelligent reading of Spanish literature; the taking of dictation in Spanish; the translation into Spanish of continuous English prose; a thorough drill in the rudiments of the grammar; with particular attention given to sentence structure, forms and

uses of pronouns, pronominal adjectives, and irregular verbs.

SPANISH. ADVANCED. *One unit.* The work in Advanced Spanish should comprise the intelligent reading of Spanish literature; class-room conversation; translation of English prose and verse into Spanish; a thorough review of the rudiments of the grammar.

MATHEMATICS. ELEMENTARY ALGEBRA. *One unit.* The work in Elementary Algebra should include the following requirements: the four fundamental operations for rational algebraic expressions; factoring; the determination of the highest common factor and the lowest common multiple by factoring; fractions, ratio and proportion; linear equations; radicals; quadratic equations.

INTERMEDIATE ALGEBRA. *One unit.* The following requirements should be studied in the course in Intermediate Algebra: quadratic equations; the application of the factor theorem; factoring of bi-nomial expressions (v-a); arithmetic and geometric progression; solution of equations containing radicals; graphical determination of the roots of an equation; logarithms, including the formulas $\log ab$,

$\log \frac{a}{b}$, $\log a^p$, and $\log a$.

PLANE GEOMETRY. *One unit.* The course in Plane Geometry should include a thorough drill in the usual theorems and constructions as treated in standard text-books; the application of these theorems in the measurements of angles, similar polygons, areas, regular polygons, and circles; the solution of numerous original problems.

SOLID GEOMETRY. *One-half unit.* The course in Solid Geometry should include a thorough study of the usual theorems and constructions as treated in standard text-books, including the relation of planes and lines in space,

the properties and measurements of prisms, cylinders, and cones, the sphere and spherical triangle, and the various formulas for areas and volumes; the practical application of the formulas in the solution of original problems.

PLANE TRIGONOMETRY. *One-half unit.* The course in Plane Trigonometry should include the definitions and relations of the six trigonometric functions as ratios; circular measurements of angles; the proof and application of the principal formulas; the theory and use of logarithms.

LATIN. *Four units.* A candidate to qualify for admission to the Bachelor of Arts course is obliged to offer as credit the full Latin requirements.

LATIN. ELEMENTARY. *One unit.* The work in elementary Latin should comprise a thorough drill in the elementary rudiments of the grammar, including the inflection of nouns, adjectives and pronouns; a thorough study of the verb; elementary syntactical constructions of nouns and clauses, including purpose, result, and concessive; direct and indirect questions. The composition work should be so designed as to bring into practice correct word order, sequence of tenses, and the Latin construction for purpose, result, and concessive clauses, direct and indirect questions.

LATIN. CAESAR, DE BELLO GALLICO, BOOKS I, II, III, IV. *One unit.* The reading in Caesar should be not less than the first four books of the Gallic War. The reading should be supplemented by a thorough drill in the principal syntactical constructions, including the construction of indirect discourse, of dependent clauses both in direct and indirect discourse, and the conditional sentences. The work in composition should be so designed as to bring into practice the Latin constructions for indirect discourse and conditional sentences.

LATIN. CICERO, ORATIONS AGAINST CATILINE, I, III; MANILIAN LAW; ARCHIAS. *One unit.* The reading in Cicero should be not less than the first and third

orations against Catiline, the Manilian Law, and the oration in behalf of Archias. In the reading of these orations, the candidate should make rhetorical outlines of each oration. Work in grammar should be stressed, especially the syntax of nouns, dependent clauses, and conditional sentences. The work in composition should be so designed as to familiarize the candidate with Ciceronian style.

LATIN. VIRGIL, AENEID, BOOKS I, II, III, IV, V, VI. *One unit.* The reading in Virgil should be not less than the first six books of the Aeneid. All poetical constructions should be thoroughly understood; allusions known; and the candidate able to appreciate intelligently the Epic. The composition work should be devoted to the application of the rules of prosody and verse structure; the scansion of the first four books; and the composition of Latin verse, especially the dactylic hexameter.

GREEK. Three units. For the perfect following of the literature course at the College, a thorough three years' training in Greek is absolutely necessary. The classes, however, are so arranged, that students entering without this three-year course, make up this deficiency during their Freshman and Sophomore years.

GREEK. ELEMENTARY. One unit. The work in elementary Greek should comprise a thorough drill in all regular syntactical constructions; the inflections of nouns, adjectives, and pronouns; the principal parts and conjugations of verbs; syntax of cases and the rules governing them; syntax of voices, moods, and tenses of verbs. Elementary composition work should comprise the writing of simple English sentences into Greek, bringing into practice the Greek construction for the various cases of nouns, adjectives and pronouns. Special attention should be given to case endings, verb formations, and moods.

GREEK. XENOPHON'S ANABASIS, BOOKS I, II, III, IV. *One unit.* The reading in Xenophon should be not

less than the first four books of the Anabasis. The reading should be supplemented by a thorough drill on the syntax of moods, including the various constructions of the indicative, optative, and subjunctive; a general study of dependent clauses, and the corresponding Greek constructions. The work in composition should be so designed as to bring into practice the Greek constructions for independent clauses; clauses of purpose, result, cause, and concession; temporal clauses introduced by $\delta\tau\epsilon$ and $\pi\rho\acute{\iota}\nu$; conditional sentences; and the attraction of moods.

GREEK. HOMER'S ILIAD, BOOKS I, II, III, IV. *One unit.* The reading in Homer should be not less than the first four books of the Iliad. In the reading of Homer careful attention should be given to the Homeric dialect, the appreciation of the Epic, the explanation of the allusions, and the metrical system. Work in the Attic grammar should be stressed, especially the more difficult syntactical constructions. The composition work should be devoted to the scansion of the first two books, and to review exercises in the translation of English prose into Greek, bringing into practice the Greek construction for indirect discourse, the infinitive not of indirect discourse, and all dependent clauses.

HISTORY. ANCIENT HISTORY. *One unit.* The work covered in Ancient History should include the study of Greek History to the death of Alexander the Great, and the dissolving of his empire; Roman History; and early Medieval History to the death of Charlemagne.

AMERICAN HISTORY. *One unit.* The course in American history should include the study of American history from the reconstruction period through the modern period.

ENGLISH HISTORY. *One unit.* The course in English history should include a study of the history of England from the period of the conquest of the Island by Caesar in 55 B. C. through the Windsor line of Kings.

MODERN EUROPEAN HISTORY. *One unit* The course in Modern European History should include the following requirements: reign of Louis XIV; colonial expansion and rivalries, development of the constitutional monarchy in England; Frederick the Great; the republican government of Revolutionary France; Napoleon; the main facts in the political development of Europe since 1815. The Industrial Revolution, the growth of nationalism and democracy, and the economic expansion of the European possessions outside of Europe should receive special emphasis throughout the course.

CIVIL GOVERNMENT. *One-half unit.* A study of the civil government in the United States, including special treatises on the constitution, organization, and actual working of national, state, and local governments.

AMERICAN HISTORY AND CIVIL GOVERNMENT. *One unit.* This course should be so arranged that two-thirds of the time be devoted to the study of American History and one-third to the study of Civil Government.

CHEMISTRY. *One unit.* The course in Chemistry should comprise the study of a standard text-book, in order that the student may gain a thorough knowledge of the fundamental facts and laws of Chemistry; individual laboratory work, comprising at least thirty experiments; and lecture table demonstrations.

Outline of the requirements: the important physical and chemical properties, and the preparation of the following elements and their most important compounds: oxygen, hydrogen, carbon, nitrogen, chlorine, bromine, fluorine, sulphur, sodium, zinc, lead, and iron; the atmosphere; acids, bases and salts; Boyle's and Charles's Law; symbols and nomenclature; atomic theory; atomic weights and valence; solutions; ionization; electrolysis.

PHYSICS. *One unit.* The course in physics should comprise the study of a standard text-book in order that the candidate may gain a thorough knowledge of the fundamental facts and laws of Physics; individual laboratory work, comprising at least thirty experiments; and lecture table demonstrations, to familiarize the candidate with the facts and phenomena of Physics in their qualitative aspects and practical applications.

BOTANY. *One unit.* The course in Botany should comprise a careful study of the general principles of Anatomy and Morphology, Physiology and Ecology; natural history of plant groups and classification.

This course should include a year's study of a standard text-book, supplemented by individual laboratory work.

ZOOLOGY. *One unit.* The course in Zoology should comprise the study of vertebrate and invertebrate zoology. The course should be developed on the basis of laboratory work supplemented by a careful study of a standard text-book. The laboratory work should be devoted to drawings and notes relating to the dissection of vertebrates.

ASTRONOMY. *One unit.* The course in Astronomy should include instruction in the elementary principles of the science, including observations of the heavens with reference to the positions and movements of the heavenly bodies. A year's study of a standard text-book is required.

PHYSIOGRAPHY. *One unit.* The course in Physiography should be so designed that the candidate will gain a thorough knowledge of the essential principles of physical geography, and of well-selected facts illustrating those principles. A year's study of a standard text-book, supplemented by individual laboratory work, is demanded as a requirement.

EXAMINATIONS IN REQUIREMENTS

MATHEMATICS I. A restricted examination in the fundamentals of Elementary Algebra, including all the requirements as outlined on page 41.

MATHEMATICS II. A restricted examination in Intermediate Algebra including all the requirements as outlined on page 41.

MATHEMATICS III. A restricted examination in the elements of Plane Geometry as outlined on page 41.

MATHEMATICS IV. A restricted examination in the elements of Solid Geometry as outlined on page 41.

MATHEMATICS V. A restricted examination in the elements of Plane Trigonometry as outlined on page 42.

MATHEMATICS VI. A comprehensive examination in Mathematics I, II, III, and IV.

MATHEMATICS VII. A comprehensive examination in Mathematics I, II, III, and V.

FRENCH II. This examination, covering the work as outlined under Elementary French, will be divided into two main parts.

Part I will test the candidate's knowledge of two years of study in the language. The questions asked will test the candidate's ability to translate French prose into English and his knowledge of syntactical constructions and inflections.

Part II of the examination will be devoted to the writing of French composition, including the writing of simple sentences and continuous prose.

GERMAN II. This examination, covering the work as outlined under Elementary German, will be divided into two main parts.

Part I of the examination will be a test of the candidate's knowledge of two years of study in the language. The questions asked will test the candidate's ability to translate into English German prose, and his knowledge of the syntactical constructions and inflections.

Part II of the examination will be devoted to the writing of German composition, including simple sentences and continuous prose.

SPANISH II. This examination, covering the work as outlined under Elementary Spanish, will be divided into two main parts.

Part I of the examination will be a test of the candidate's knowledge of two years of study in the language. The questions asked will test the candidate's ability to translate into English Spanish prose, and his knowledge of the syntactical constructions and inflections.

Part II of the examination will be devoted to the writing of Spanish composition, including simple sentences and continuous prose.

HISTORY I. Ancient History.

HISTORY II. American History with or without Civil Government.

HISTORY III. English History.

HISTORY IV. Modern European History.

ENGLISH I. An examination in the elements of English grammar and composition. The examinee may be asked to construe sentences, to parse words, and to correct mistakes in usage. The test in composition will be devoted to the development of selected themes (one or more) throughout several paragraphs, applying the principles of paragraphing, of loose and periodic sentences, of description, narration, and exposition. Several subjects will be suggested, from which the candidate may make his own selection.

ENGLISH II. This examination, covering the work as outlined under Books for Study and Books for Reading, will be divided into two main parts.

Part I of the examination will test the candidate's knowledge of those books required for study. The questions asked will test the candidate's knowledge of the content and form of the books, the lives of the authors, and the literary periods to which the authors belong.

Part II of the examination will test the candidate's ability to appreciate intelligently one or two books selected from the group of books required for reading.

ENGLISH III. A comprehensive examination in English I and English II combined. The questions asked will be similar in form to those of the restricted examinations.

LATIN II. A restricted examination in the First and Fourth Books of Caesar's *De Bello Gallico*. The candidate will be asked to translate into English selected passages taken from the above required books, and to state and explain cases of nouns and pronouns, moods and tenses of verbs, which appear in the selected passages. The candidate may also be asked to decline nouns, to write the principal parts, conjugations, and synopses of verbs, and to explain historical references. The composition work will be based on Book I, *De Bello Gallico*, bringing into practice the rules for the sequences of tenses, the uses of the dative and ablative cases, and the Latin constructions for indirect discourse and conditional sentences.

LATIN III. A restricted examination in the First and Third Orations of Cicero against Catiline, and the Oration for Archias. The candidate will be asked to translate into English selected passages taken from the above required Orations, and to state and explain cases of nouns, moods and tenses of verbs, to explain historical references, and to outline the orations. The candidate may be asked to decline nouns, pronouns, and adjectives, and to write the principal parts, conjugations, and synopses of verbs. The composi-

tion work will be based on the First Oration against Catiline, bringing into practice Latin constructions for dependent clauses and conditional sentences.

LATIN IV. A restricted examination in the First, Third and Sixth Books of Virgil's Aeneid. The candidate will be asked to translate into English selected passages taken from the above required books of the Aeneid, to explain poetic constructions, to appreciate intelligently the selected passages, to explain allusions, and to scan selected verses. Syntax of nouns and verbs may be asked. The candidate may be held responsible for all rules of prosody.

LATIN V. A comprehensive examination in Latin II and Latin III combined. The questions asked will be similar in form to those of Latin II and Latin III examinations. The composition work will be based on Cicero's first oration against Catiline, and will bring into practice the same Latin constructions as the compositions of Latin II and Latin III examinations. The candidate will be asked to translate into English a Latin selection taken from an author with whom he is not familiar.

LATIN VI. A comprehensive examination in Latin III and IV combined. The questions asked will be similar in form to those of Latin III and Latin IV examinations. The composition work will be based on Cicero's first oration against Catiline, and will bring into practice the same Latin constructions as the composition of Latin III examination. The candidate may be asked to translate into English selections taken from Latin prose authors or poets with whom he is not familiar.

GREEK II. A restricted examination in the First and Second Books of Xenophon's Anabasis. The candidate will be asked to translate into English selected passages taken from the above required books of Xenophon's Anabasis; to state and explain the cases of nouns, adjectives, and pronouns; moods, tenses, and voices of verbs, which appear

in the selected passages. The candidate may also be asked to inflect nouns, adjectives, and pronouns; to compare adjectives and adverbs; to write the principal parts, conjugations, and synopses of verbs; and to explain historical references. The composition work will be based on Book I, Xenophon's *Anabasis*, bringing into practice the rules governing the various uses of the indicative, optative, and subjunctive moods; the Greek construction for dependent clauses of purpose, result, cause, and concession, and temporal clauses introduced by *ὅτε* and *πρίν*, and conditional sentences.

GREEK III. A restricted examination in the First and Third Books of Homer's *Iliad*. The candidate will be asked to translate into English selected passages taken from any of the above required books of Homer's *Iliad*, to explain syntactical constructions, to write the prose form of Homeric words, to explain allusions, to appreciate the selections, and to scan selected verses. The candidates may be held responsible for all rules of prosody.

GREEK IV. A comprehensive examination, combining Greek II and Greek III examinations. The questions asked will be similar in form to those of Greek II and Greek III examinations. The composition work will be based on the first book of Xenophon's *Anabasis*, and will bring into practice the same Greek constructions as the compositions of the restricted examinations. The candidate will be asked to translate into English selections from Greek prose writers and poets with whom he is not familiar.

CHEMISTRY. The examination in Chemistry will be a test of the candidate's knowledge of the most fundamental facts and laws of chemistry; his ability to explain the preparations of various elements; his power to distinguish and identify elements; and his ability to solve original problems based on the fundamental laws.

PHYSICS. The questions will be so designed as to test the candidate's knowledge of the fundamental facts and laws of Physics and the application of the laws in the solving of original problems.

BIOLOGY. A restricted examination in the fundamental principles of Botany and Zoology.

ZOOLOGY. A restricted examination in the fundamental principles of vertebrate and invertebrate Zoology.

ASTRONOMY. A restricted examination in the elementary principles of Astronomy.

PHYSIOGRAPHY. A restricted examination in the essential principles of physical geography.

REGISTRATION

Before a student will be permitted to register for any course, he must present at the Registration Room a certificate from the Treasurer's Office qualifying him for registration. At the Registration Room the student will be obliged to supply the information necessary for the college records. No student will be permitted to attend any classes without fulfilling the above requirements. Registration for all courses ends two weeks after the appointed days for registration.

At the Office of the Registrar the student receives all credentials necessary for the scholastic year.

All Day Students must register on Monday, September 16th, or Tuesday, September 17th, before six o'clock in the evening.

All Freshman and Sophomore Boarding Students must register on Wednesday, September 18th, before six o'clock in the evening.

All Junior Boarding Students must register on Thursday, September 19th, before six o'clock in the evening.

All Senior Boarding Students must register on Monday, September 23rd, before six o'clock in the evening.

ATTENDANCE, STANDING, AND EXAMINATIONS

ATTENDANCE. Each student is compelled to attend at least 85 per cent of the classes in which he is enrolled, including gymnasium and eclectic lectures on subjects intimately connected with class-room study, and all chapel exercises. Any student missing more than fifteen per cent of scheduled classes in any subject during a semester will forfeit credit in that subject.

STANDING. At the close of each scholastic quarter, a report is sent to the parent or guardian of each student, including a record of the student's discipline and his standing in each of his classes. Sixty per cent. is demanded for passing grade; ninety per cent. is considered honor grade.

EXAMINATIONS. At the end of each quarter, all classes are examined in their respective subjects. These examinations constitute forty per cent. of the quarter's mark.

At the end of each semester, examinations in the entire semester's work are held. A student who has not attained the passing grade of sixty per cent. in the semester's work in any subject (the semester's grade is calculated in the following manner: the class work for the semester counting sixty-six and two-thirds per cent. and the semester examination counting thirty-three and one-third per cent. of the semester grade)—will lose credit for that subject and consequently be conditioned. This condition, if in a minor subject, may be removed by repeating the course. Failure for the semester in a major subject will cause the withdrawal of the student from the College.

Special examinations, at the discretion of the Dean, are sometimes allowed students, who, although they have passed the class work for the semester, but failed in the semester examinations, have presented evidence that the work of the course has been thoroughly reviewed. If the examination is for the removal of an absent mark, the student is obliged to pay a fee of three dollars; if, for the removal of a condition mark, the student is obliged to pay a fee of five dollars.

REQUIREMENTS FOR VARIOUS DEGREES

BACHELOR OF ARTS DEGREE: The requirement for graduation with Bachelor of Arts degree is 150 semester hours, the term "semester hour" signifying the satisfactory completion of working requiring attendance each half-year of one hour weekly in lectures or recitations or two hours weekly in laboratory.

Admission to all courses depends strictly upon the completion with grade of sixty per cent. or better of all prerequisites.

To be recommended for this degree, a student must have made at least thirty-two of the one hundred and fifty required semester hours in actual residence at Holy Cross College.

Unless the equivalents have been offered for admission, the following courses are prescribed for students who are candidates for the Bachelor of Arts degree.

English Composition and the study of Poetry. Three hours per week for two semesters.

Theory of Rhetoric and Rhetorical Analysis and Composition. Three hours per week for two semesters.

History of English Literature. One hour per week for two semesters.

Shakespearean Drama. One hour per week for two semesters.

Public Speaking. One hour per week for four semesters.

Latin. Including the four units offered for admission, six hours per week for four semesters.

Greek. Four hours per week for four semesters.

Mathematics. Including the entrance credits, Algebra, Plane Geometry, and Plane Trigonometry. Mathematics is not required in course; including only entrance credits in Algebra and Plane Geometry, two hours per week for two semesters.

Modern Language. Including the two units offered for admission, three hours per week for two semesters.

History. Including the two units offered for admission, three hours per week for four semesters.

Biology. One hour per week for two semesters for the Bachelor of Arts degree without pre-medical training; four hours per week (two lecture hours and two laboratory hours) for four semesters for Bachelor of Arts degree with pre-medical training.

Chemistry. Three hours per week (two lecture hours and one laboratory hour) for two semesters for Bachelor of Arts degree without pre-medical training; for Bachelor of Arts degree with pre-medical training, thirty semester hours of credit are required.

Physics. Four hours per week (three lecture and one laboratory hour) for two semesters.

Philosophy. Nine hours per week for two semesters.

Psychology. Five hours per week for one and one-half semesters.

Natural Theology. Five hours per week for one-half semester.

Ethics. Five hours per week for two semesters.

Religion. Two hours per week for eight semesters.

Elective Branches. Six hours per week for four semesters.

BACHELOR OF PHILOSOPHY DEGREE: The requirement for graduation with the Bachelor of Philosophy degree is 140 semester hours, the term "semester hour" signifying the satisfactory completion of work requiring attendance each half-year of one hour weekly in lectures or recitation or two hours weekly in laboratory.

Admission to all courses depends upon the completion with grade of sixty per cent. or better of the stated prerequisites.

To be recommended for a degree, a student must have made at least thirty-two of the one hundred and forty required semester hours in actual attendance at Holy Cross College.

Two different courses are offered by the College, the satisfactory completion of either leads to this degree, the Bachelor of Philosophy course in Latin and the Bachelor of Philosophy course in English. Unless the equivalents of the respective requirements of each course have been offered for admission, the following courses are prescribed for stu-

dents who are candidates for the Bachelor of Philosophy degree:

BACHELOR OF PHILOSOPHY—*In Latin*

English Composition and the study of Poetry. Three hours per week for two semesters.

Theory of Rhetoric and Rhetorical Analysis and Composition. Three hours per week for two semesters.

History of English Literature. One hour per week for two semesters.

Shakespearean Drama. One hour per week for two semesters.

Public Speaking. One hour per week for four semesters.

Latin. Including the four units offered for admission, six hours per week for four semesters.

Mathematics. Including the entrance credits, Algebra, Plane Geometry, and Plane Trigonometry. Mathematics is not required in course; including only entrance credits in Algebra and Plane Geometry, two hours per week for two semesters.

Modern Language. Including the two units offered for admission, three hours per week for two semesters.

History. Including the two units offered for admission, three hours per week for four semesters.

Biology. One hour per week for two semesters for the Bachelor of Philosophy degree without pre-medical training; four hours per week (two lecture hours and two laboratory hours) for four semesters for Bachelor of Philosophy degree with pre-medical training.

Chemistry. Three hours per week (two lecture hours and one laboratory hour) for two semesters for Bachelor of Philosophy degree without pre-medical training; for Bachelor of Philosophy degree with pre-medical training, thirty semester hours of credit are required.

Physics. Four hours per week (three lecture and one laboratory hour) for two semesters.

Philosophy. Nine hours per week for two semesters.

Psychology. Five hours per week for one and one-half semesters.

Natural Theology. Five hours per week for one-half semester.

Ethics. Five hours per week for two semesters.

Religion. Two hours per week for eight semesters.

Elective Branches. Six hours per week for four semesters.

BACHELOR OF PHILOSOPHY—*In English*

English Composition, Mechanics of English, and General Rhetoric. Four hours per week for one semester.

English Composition and Poetry. Four hours per week for one semester.

History of English Literature. Three hours per week for two semesters.

English Literature of the Nineteenth Century. Three hours per week for two semesters.

Theory of Rhetoric and Rhetorical Analysis and Composition. Three hours per week for two semesters.

Shakespearean Drama. One hour per week for two semesters.

Mathematics. Including the entrance units, three hours per week for two semesters.

Chemistry. Three hours per week (two hours lecture and one laboratory hour) for two semesters.

Physics. Four hours per week (three lecture hours and one laboratory hour) for two semesters.

Biology. Three hours per week (two lecture hours and one laboratory hour) for two semesters.

Modern Language. Including the two units offered for admission, three hours per week for four semesters.

Philosophy. Nine hours per week for two semesters.

Psychology. Five hours per week for one and one-half semesters.

Natural Theology. Five hours per week for one-half semester.

Ethics. Five hours per week for two semesters.

Religion. Two hours per week for eight semesters.

Elective Branches. Six hours per week for four semesters.

BACHELOR OF SCIENCE DEGREE: The requirement for graduation with the Bachelor of Science degree is 142 semester hours, the term "semester hour" signifying the satisfactory completion of work requiring attendance each half-year of one hour weekly in lectures or recitation or two hours weekly in laboratory.

Admission to all courses depends strictly upon the completion with grade of sixty per cent. or better of the stated prerequisites.

To be recommended for a degree, a student must have made at least thirty-two of the one hundred and forty-two required semester hours in actual attendance at Holy Cross College.

Three different courses are offered by the College, the satisfactory completion of any one of the three leads to this degree, namely, Bachelor of Science in Chemistry, Bachelor of Science in Physics, and Bachelor of Science—General Course. Unless the equivalents of the respective requirements of each course have been offered for admission, the following courses are prescribed for students who are candidates for the Bachelor of Science degree:

BACHELOR OF SCIENCE—*In Chemistry*

English Composition, Mechanics of English and General Rhetoric. Three hours per week for one semester.

English Composition and Poetry. Three hours per week for one semester.

Theory of Rhetoric, Rhetorical Analysis and Composition. Three hours per week for two semesters.

Shakespearean Drama. One hour per week for two semesters.

Advanced Algebra. Four hours per week for one semester.

Plane Trigonometry. Four hours per week for one semester.

Mathematical Analysis. Four hours per week for two semesters.

Physics—*Mechanics, Heat and Sound*. Four hours per week for two semesters. *Light, Magnetism and Electricity*. Four hours per week for two semesters.

Chemistry—*Inorganic*. Five hours per week for two semesters.

Stoichiometry. One hour per week for two semesters. *Qualitative*

Analysis. Five hours per week for one semester. *Quantitative An-*

alysis. Five hours per week for one semester. *Organic Chemistry*.

Five hours per week for two semesters. *Colloid Chemistry*. Three

hours per week for two semesters. *Physical Chemistry*. Five hours

per week for two semesters. *Qualitative Organic Analysis*. Three

hours per week for one semester. *Ultimate Organic Analysis*. Three

hours per week for one semester.

Philosophy. Nine hours per week for two semesters.

Psychology. Five hours per week for one and one-half semesters.

Natural Theology. Five hours per week for one-half semester.

Ethics. Five hours per week for two semesters.

German. Three hours per week for two semesters.

History. Two hours per week for two semesters.

Religion. Two hours per week for eight semesters.

BACHELOR OF SCIENCE—*In Physics*

English Composition, Mechanics of English and General Rhetoric. Three hours per week for one semester.

English Composition and Poetry. Three hours per week for one semester.

Theory of Rhetoric, Rhetorical Analysis and Composition. Three hours per week for two semesters.

Shakespearean Drama. One hour per week for two semesters.

Advanced Algebra. Four hours per week for one semester.

Plane Trigonometry. Four hours per week for one semester.

Calculus. Four hours per week for two semesters.

Differential Equations. Three hours per week for two semesters.

Mathematical Analysis. Four hours per week for two semesters.

Chemistry—*Inorganic*. Five hours per week for two semesters.

Stoichiometry. One hour per week for two semesters. *Qualitative*

Analysis. Five hours per week for one semester. *Quantitative Analysis*. Five hours per week for one semester.

Physics—*Mechanics, Heat and Sound*. Four hours per week for two semesters. *Light, Magnetism and Electricity*. Four hours per week for two semesters. *Mechanics*. Four hours per week for one semester. *Optics*. Four hours per week for one semester. *Magnetism and Electricity*. Four hours per week for one semester. *Heat and Elementary Thermodynamics*. Four hours per week for one semester.

Mechanical Drawing. Two hours per week for two semesters.

Descriptive Geometry. Two hours per week for two semesters.

Philosophy. Nine hours per week for two semesters.

Psychology. Five hours per week for one and one-half semesters.

Natural Theology. Five hours per week for one-half semester.

Ethics. Five hours per week for two semesters.

German. Three hours per week for two semesters.

History. Two hours per week for two semesters.

Religion. Two hours per week for eight semesters.

BACHELOR OF SCIENCE—General Course

English Composition, Mechanics of English and General Rhetoric. Three hours per week for one semester.

English Composition and Poetry. Three hours per week for one semester.

Theory of Rhetoric, Rhetorical Analysis and English Composition. Three hours per week for two semesters.

Shakespearean Drama. One hour per week for two semesters.

Advanced Algebra. Four hours per week for one semester.

Plane Trigonometry. Four hours per week for one semester.

Physics—*Mechanics, Heat and Sound*. Four hours per week for two semesters. *Light, Magnetism and Electricity*. Four hours per week for two semesters.

Chemistry—*Inorganic*. Five hours per week for two semesters. *Stoichiometry*. One hour per week for two semesters. *Qualitative Analysis*. Five hours per week for one semester. *Quantitative Analysis*. Five hours per week for one semester. *Organic Chemistry*. Five hours per week for two semesters.

Biology—General Biology. Four hours per week for two semesters. *Embryology*. Four hours per week for one semester. *Vertebrate Anatomy*. Four hours per week for one semester.

Philosophy. Nine hours per week for two semesters.

Psychology. Five hours per week for one and one-half semesters.

Ethics. Five hours per week for two semesters.

Natural Theology. Five hours per week for one-half semester.

German. Three hours per week for two semesters.

History. Two hours per week for two semesters.

Religion. Two hours per week for eight semesters.

Electives. Each candidate must make twelve semester hours' credit in Elective subjects. No subjects other than subjects of the Science courses can be offered as elective subjects.

REQUIREMENTS FOR VARIOUS DEGREES ARRANGED BY YEARS

A.B. and Ph.B. Courses

FRESHMAN YEAR

A.B. COURSE	PH.B. COURSE (<i>Latin</i>)	PH.B. COURSE (<i>English</i>)
English 3, 4, 12	English 3, 4, 12	English 16, 2, 12
Latin 1, 2, 3	Latin 1, 2, 3	English 14
¹ Greek 1, 2 or 3, 4 or 5, 6	² Mathematics 1	Mathematics 6
² Mathematics 1	³ Modern Language	⁴ Chemistry 1 or 2
³ Modern Language	History 6	French 3
History 6	Religion 1, 2	History 6
Religion 1, 2		Religion 1, 2

SOPHOMORE YEAR

English 5, 6	English 5, 6	English 5, 6
English 13	English 13	English 13
Latin 4, 5, 6	English 9	English 9
¹ Greek 7, 8 or 9, 10	Latin 4, 5, 6	Biology 3
⁴ Chemistry 1 or 2	⁴ Chemistry 1 or 2	French 4
History 7	History 7	History 7
Religion 3, 4	Religion 3, 4	Religion 3, 4

JUNIOR YEAR

Philosophy 1, 2, 3, 4	Philosophy 1, 2, 3, 4	Philosophy 1, 2, 3, 4
Physics 1	Physics 1	Physics 1
Biology 2	Biology 2	Religion 5, 6
Religion 5, 6	Religion 5, 6	[*] Electives
[*] Electives	[*] Electives	

SENIOR YEAR

Philosophy 5, 6, 7, 8	Philosophy 5, 6, 7, 8	Philosophy 5, 6, 7, 8
Philosophy 10, 11	Philosophy 10, 11	Philosophy 10, 11
Religion 7	Religion 7	Religion 7
[*] Electives	[*] Electives	[*] Electives

¹Courses 1, 2, 7, 8 are obligatory for all students offering no Greek for admission.

²No college credit is given for Mathematics 1. The course is offered to allow students to remove entrance deficiency in Trigonometry.

³The course in Modern Language depends upon the number of units offered for admission or the choice of the candidate.

⁴Course 1 is obligatory for all students not pursuing pre-medical subjects; Course 2 is obligatory for all students pursuing pre-medical subjects.

^{*}Candidates for A.B. and Ph.B. degrees, desiring pre-medical training are required to choose as elective subjects Biology 1, 4, 5 and Chemistry 13, 14 and 5. At the beginning of the Junior year, each candidate for a degree is obliged to select one elective branch and pursue that branch throughout the Senior year.

REQUIREMENTS FOR VARIOUS DEGREES ARRANGED BY YEARS

B.S. Courses

FRESHMAN YEAR

B.S. COURSE (<i>In Chemistry</i>)	B.S. COURSE (<i>In Physics</i>)	B.S. COURSE (<i>General</i>)
English 16, 2, 12	English 16, 2, 12	English 16, 2, 12
Mathematics 2	Mathematics 2	Mathematics 2
Physics 2	Physics 2	Physics 2
Chemistry 2	Chemistry 2	Chemistry 2
Chemistry 12	Chemistry 12	Chemistry 12
German 1	German 1	German 1
Religion 1, 2	Religion 1, 2	Religion 1, 2

SOPHOMORE YEAR

English 5, 6	English 5, 6	English 5, 6
Mathematics 3	Mathematics 3	Biology 1
Physics 3	Physics 3	Physics 3
Chemistry 13	Chemistry 13	Chemistry 13, 14
Chemistry 14	Chemistry 14	History 7
History 7	History 7	Religion 3, 4
Religion 3, 4	Religion 3, 4	

JUNIOR YEAR

Philosophy 1, 2, 3, 4	Philosophy 1, 2, 3, 4	Philosophy 1, 2, 3, 4
Chemistry 5	Mathematics 5	Biology 4, 5, 6
Chemistry 6	Physics 6, 7	Chemistry 5
Religion 5, 6	Physics 8, 9	Religion 5, 6
	Religion 5, 6	

SENIOR YEAR

Philosophy 5, 6, 7, 8	Philosophy 5, 6, 7, 8	Philosophy 5, 6, 7, 8
Philosophy 10, 11	Philosophy 10, 11	Philosophy 10, 11
Chemistry 7	Physics 4, 5	*Electives
Chemistry 8	Mathematics 8	
Chemistry 9	Religion 7	
Religion 7		

* Each candidate must make twelve semester hours of credit in elective subjects. No subjects, other than subjects offered in the Science Courses, can be offered as elective subjects.

OUTLINE OF COURSES

BIOLOGY

Professor GIESEN

Assistant Professor MALUMPHY and MR. CAHILL

Biology 1. General Biology. Open to Sophomores in the B.S. course; required of Juniors in the A.B. Pre-medical course.

This course is a prerequisite to all future work in Biology. The cell is treated as the structural and physiological unit of the plant and animal life. The various manifestations of life are studied on selected types of the great groups of plants and animals. The study of these forms includes their anatomy, physiology, life histories, and relations to environment. Special attention is given in the lectures to the general biological problems: the relation of the organisms to each other, parasitism, organic evolution, and heredity.

Two lectures and two laboratory periods per week for two semesters.
Eight semester hours credit.

Texts: Lecture: *General and Professional Biology, Menge, Vol. I.*

Laboratory: *Manual for Gen. Biology, Giesen.*

Manual for Gen. Botany, Potter.

Assistant Professor MALUMPHY and MR. CAHILL

Biology 2. Biological Principles. Required of all students who are not taking any other work in Biology.

This course is intended for students of philosophy and psychology who are unable to take a laboratory course in Biology. It aims to give the biological background necessary to the proper understanding of many philosophical and psychological questions. Topics like the cell theory, heredity, development of the nervous system, and organic evolution are discussed. Lectures and demonstrations.

One hour per week for two semesters.

Two semester hours credit.

Text: *General Biology, Menge, Vol. I.*

Professor GIESEN.

Biology 3. Animal Biology. Open to Ph.B. Sophomores.

This course aims to acquaint the student with the general anatomy and physiology of higher forms, including the human body. Dissection of higher vertebrates and microscopic study of tissues and organs

in the laboratory. In the lectures special attention is given to the problems of heredity and health.

Two lecture hours and one laboratory hour per week for two semesters.

Six semester hours credit.

Text: *General and Professional Biology, Menge.*

Assistant Professor MALUMPHY and MR. CAHILL.

Biology 4. Embryology. Open to Juniors in the B.S. course; required of Seniors in the A.B. Pre-medical course.

The early part of the course is devoted to the study of oogenesis, spermatogenesis, fertilization, segmentation, and the formation of the three germ layers. This work is based on the development of the grasshopper, starfish, amphioxus, and frog. This is followed by a study of the frog from the gastrula to the 15mm. tadpole stage, and of the chick from the time of incubation to a stage in which the more important organs of the body have appeared. Preserved material, whole mounts and complete serial sections are furnished each student. An extensive collection of models is at the disposal of the class.

Two lectures and two laboratory hours per week for one semester.

Four semester hours credit.

Texts: Lecture: *Embryology of the Chick, Patten.*

Laboratory: *Manual, Giesen.*

Professor GIESEN.

Biology 5. Vertebrate Anatomy. Open to Juniors in the B.S. course; required of Seniors in the A.B. Pre-Medical course. Prerequisite: Biology 4.

A thorough study in the laboratory of the skeletal systems of the shark, alligator, and cat. Detailed dissection of the muscular, circulatory, digestive, uro-genital, and nervous systems of the cat. Individual dissection by each student.

One lecture hour per week for one semester.

Two three-hour laboratory hours per week for one semester.

Four semester hours credit.

Text: *Anatomy of the Cat, Reighard and Jennings.*

Professor GIESEN.

Biology 6. Histological Technique. Open to B.S. students in the Junior year, to Pre-medical students in the Senior year.

Methods of collecting and preserving biological material with various methods of fixing, embedding, sectioning, and staining. Preparation of slides.

Three hours per week First and Second Semester.

One semester hour credit.

Text: *Micrology*, Guyer.

Assistant Professor MALUMPHY.

Biology 7. Animal Parasites. Open to B.S. students in Senior year.

Origin and biological significance of parasitism, structure, life history, pathogenic relations of parasites to man and domestic animals, and methods of prevention.

Two lectures and one laboratory hour for one semester.

Three semester hours credit.

Text: *Animal Parasites and Human Disease*, Chandler.

(Not to be offered 1929-1930.)

Biology 8. Cytology and Heredity. Open to B.S. students in Senior year.

A course in the study of the plant and animal cell; the cell organs, their origin, structure, physiology, and their role in heredity. Various theories of heredity will be discussed, emphasis being laid upon Mendelism and its practical application.

Two lectures and two laboratory hours for one semester.

Four semester hours credit.

Text: *Cytology*, Sharp; *Genetics*, Jones.

(Not to be offered 1929-1930.)

Biology 9. Comparative Neurology. Open to Senior B.S. Pre-medical students only. Prerequisite: Biology 4 and 5.

Structure and function of the invertebrate and vertebrate nervous systems. Individual dissections.

One lecture hour per week throughout the whole year.

Two three-hour laboratory hours per week throughout the year.

Texts: *Parker and Haswell and other standard works.*

Eight semester hours credit.

(Not offered 1928-1929.)

Biology 101. Biological Seminar. Conducted for the Senior students in the department who wish to become acquainted with the bibliography of the different biological branches. Particular attention is given to French and German publications.

Two hours per week for two semesters.

Two semester hours credit.

Professor GIESEN and FACULTY.

CHEMISTRY

Professors STROHAVER, HAGGERTY and LANGGUTH

Assistant Professors KELLY and COONAN

MESSRS. BARIL, CHAREST and ASSISTANTS

Chemistry 1. General Chemistry. This course is obligatory for all students of the A.B. and Ph.B. courses who are not fulfilling pre-medical requirements.

An elementary course in the fundamental principles of chemical science, together with a description of the more common elements (including Carbon) and their important compounds. The laboratory work is designed to illustrate those reactions which have found applications in the industries.

Two lecture hours and one laboratory hour per week for two semesters.

Six semester hours credit.

Texts: Lecture: *College Chemistry, Newell.*

Laboratory: *Professor's Outlines.*

Professor LANGGUTH.

Chemistry 2. General Inorganic Chemistry. This course is obligatory for all students of the B.S. course, and elective for students of the A.B. and Ph.B. courses. It must be elected by all students of the A.B. and Ph.B. courses who are fulfilling pre-medical requirements.

A thorough study of the physical and chemical properties of the elements and their more important compounds. Special emphasis is laid upon the relationships indicated by the periodic system and the electromotive series. Effects which accompany change of valence, etc., are interpreted on the basis of the electronic theory.

Three lecture hours, one quiz, and two laboratory hours per week for two semesters.

Ten semester hours credit.

Texts: Lecture: *General Chemistry, Deming.*

Quiz: *Chemical Calculations, Meyer.*

Laboratory: *Professor's Outlines.*

Assistant Professor KELLY and FOUR ASSISTANTS.

Chemistry 3. Analytical Chemistry. This course is elective for students of the A.B. and Ph.B. courses. Prerequisite: *Chemistry 1 or 2.*

A course in qualitative and quantitative analysis. The qualitative course is intended to broaden the student's knowledge of Inorganic

Chemistry from the viewpoint of pharmaceutical and medical application. Students are required to make selected tests from the United States Pharmacopoeia. The quantitative course is a study of the simpler methods of Volumetric and Gravimetric Analysis. Stress is laid on those methods which will be of use in the study of Physiological Chemistry.

Two lecture hours and two laboratory hours per week for two semesters.

Eight semester hours credit.

Texts: Qualitative: *Qualitative Chemical Analysis*, Bradley.

Quantitative: *Quantitative Analysis*, Moody.

(Not offered 1928-1929.)

Chemistry 4. Analytic Chemistry. This course is obligatory for students of the B.S. course who are majoring in Chemistry. It must be elected by students of the A.B. and Ph.B. courses who are fulfilling pre-medical requirements. Prerequisite: *Chemistry 2*.

A course in qualitative and quantitative analysis. The qualitative course is designed to train the student in careful manipulation and exact methods of procedure. The reason for each operation is made clear to the student. The student is obliged to apply to the operations of qualitative analysis the laws of chemical equilibrium, and especially the principles relating to solubility, and to the ionization, complex formation, and oxidation and reduction of substances in solution. The quantitative course consists of a general survey of the methods of volumetric and gravimetric analysis, including calorimetry, gas analysis, and electro-analysis. The theories applied in qualitative analysis are now studied quantitatively. Particular stress is laid on the theory and use of Indicators, Hydrogen-ion determination, and electrometric titration.

Two lecture hours and three laboratory hours for two semesters.

Ten semester hours credit.

Texts: Qualitative: *Qualitative Chemical Analysis*, A. A. Noyes.

Quantitative: *Quantitative Analysis*, Popoff.

(Not offered 1928-1929.)

Chemistry 5. Organic Chemistry. Obligatory for Junior B.S. Elective for Senior A.B. and Junior Ph.B.

Three lecture hours and two laboratory hours per week for two semesters.

Ten semester hours credit.

Texts: Lecture: *Introduction to Organic Chemistry, Williams.*
Organic Chemistry, Bernthsen-Sudborough.

Laboratory: *Laboratory Book of Organic Chemistry, Lowy-Baldwin.*

Assistant Professor KELLY and MR. BARIL.

Chemistry 6. Colloid Chemistry. Obligatory for Junior B.S. Elective for Senior A.B. and Junior Ph.B.

One lecture hour and two laboratory hours per week for two semesters.

Six semester hours credit.

Texts: Lecture: *Colloids, Kruyt-VanKlooster.*

Laboratory: *Professor's Outlines.*

Assistant Professor KELLY.

Chemistry 7. Physical Chemistry. Obligatory for Senior B.S. Elective for Senior Ph.B.

Three lecture hours and two laboratory hours per week for two semesters.

Ten semester hours credit.

Texts: Lecture: *Outlines of Theoretical Chemistry, Getman.*

Laboratory: *Laboratory Manual of Physical Chemistry, Davidson and VanKlooster.*

Professor HAGGERTY.

Chemistry 8. Qualitative Organic Analysis. Obligatory for Senior B.S. Elective for Senior Ph.B.

One lecture hour and two laboratory hours per week for one semester.

Three semester hours credit.

Text: *Qualitative Organic Analysis, Kamm.*

MR. BARIL.

Chemistry 9. Ultimate Organic Analysis. Obligatory for Senior B.S. Elective for Senior Ph.B.

One lecture hour and two laboratory hours per week for one semester.

Three semester hours credit.

Texts: *Organic Combustions, Fisher, and Professor's Outlines.*

MR. BARIL.

Chemistry 10. Physiological Chemistry. Elective for all Seniors. Two lecture hours and two laboratory hours per week for two semesters.

Eight semester hours credit.

Texts: Lecture: *Introduction to Physiological Chemistry, Bodansky.*

Laboratory: *Laboratory Manual of Physiological Chemistry, Bodansky and Fay.*

Professor STROHAVER.

Chemistry 12. Stoichiometry. Obligatory for students taking *Chemistry 2.*

One hour lecture (with assignment of problems) per week for two semesters.

Two semester hours credit.

Texts: First semester, *Elementary Chemical Calculations, Meyer.*
Second semester, *Oxidation-Reduction Reactions, Jette.*

Professor LANGGUTH.

Chemistry 13. Qualitative Analysis. Obligatory for Sophomore B.S. Elective for Junior A.B. and Sophomore Ph.B.

Two lecture hours and three laboratory hours per week for one semester.

Five semester hours credit.

Text: *Qualitative Chemical Analysis, A. A. Noyes.*

MR. CHAREST.

Chemistry 14. Quantitative Analysis. Obligatory for Sophomore B.S. Elective for Junior A.B. and Sophomore Ph.B.

Two lecture hours and three laboratory hours per week for one semester.

Five semester hours credit.

Text: *Inorganic Quantitative Analysis, Fales.*

MR. CHAREST.

Chemistry 21. General Chemistry. Obligatory for all students of the A.B., B.S. and Ph.B. courses.

Three lecture hours and one laboratory hour per week for two semesters.

Eight semester hours credit.

Texts: Lecture: *Smith's Inorganic Chemistry*, Kendall.

Laboratory: *Experimental Inorganic Chemistry*, Smith.

(Not offered 1928-1929)

Chemistry 22. Inorganic Laboratory. Elective for students lacking pre-medical units.

One laboratory hour per week for two semesters.

Two semester hours credit.

Texts: *Professor's Outlines.*

Assistant Professor COONAN.

Chemistry 101. Reaction Rates. Obligatory for M.S. students.

Three hours lecture and one hour of laboratory per week for one semester.

Four semester hours credit.

Professor HAGGERTY.

Chemistry 102. Electrochemistry. Elective for M.S. students.

Three lecture hours and two laboratory hours per week for one semester.

Five semester hours credit.

Professor HAGGERTY.

Chemistry 103. Non-ferrous Metallurgy. Elective for M.S. students.

Two lecture hours and two laboratory hours per week for one semester.

Four semester hours credit.

Assistant Professor COONAN.

Chemistry 104. Metallurgy of Iron and Steel. Elective for M.S. students.

Two lecture hours and two laboratory hours per week for one semester.

Four semester hours credit.

Assistant Professor COONAN.

Chemistry 105. Non-ferrous Metallography. Elective for M.S. students.

Two lecture hours and two laboratory hours per week for one semester.

Four semester hours credit.

Assistant Professor COONAN.

Chemistry 106. Metallography of Iron and Steel. Elective for M.S. students.

Two lecture hours and two laboratory hours per week for one semester.

Four semester hours credit.

Assistant Professor COONAN.

Chemistry 107. Advanced Metallography. Elective for M.S. students.

Hours and credits arranged with the Professor.

Assistant Professor COONAN.

Chemistry 108. Organic Reactions. Obligatory for M.S. students. Two lecture hours and two laboratory hours per week for one semester.

Four semester hours credit.

Professor STROHAVER.

Chemistry 109. Organic Structure. Elective for M.S. students.

Two lecture hours and two laboratory hours per week for one semester.

Four semester hours credit.

Professor STROHAVER.

Chemistry 110. Organic Medicinals and The Nervous System. Elective.

Two lecture hours per week for one semester.

Two semester hours credit.

Professor STROHAVER.

Chemistry 111. Subatomic Structure. Elective.

Two lecture hours per week for one semester.

Two semester hours credit.

Professor HAGGERTY.

Chemistry 112. Seminar. Obligatory for M.S. students.
One hour every two weeks for two semesters.

Professor STROHAVER and FACULTY.

ENGLISH

Professors KIMBALL, DRUMM, DWYER and O'DRAIN
Assistant Professors BARRENGER, BOURS, BURKE, FLANAGAN, GARRISON, HALE, KEVILLE, MAXWELL, McCANN, McDONALD, O'KEEFE, REED and TRIBBLE
MESSRS. FOLEY and McCARTIN

English 1. Elementary Rhetoric and Composition. This course is obligatory for all students of the B.S. and Ph.B. courses. Prerequisite: four entrance units credit.

A thorough training in the fundamentals of literature and prose composition; choice of words, elegance, vigor and variety of expression; thought development; rhythm and movement of sentences; the finer points of style, correlation, economy and suggestion; laws governing narration, description and exposition.

Three hours per week for one semester.

Three semester hours credit.

Texts: *Model English I, II, III, Donnelly.*

Rhetoric and Composition, Hitchcock.

(Not offered in 1928-1929.)

English 2. Poetry and Versification. This course is obligatory for all students of the B.S. and Ph.B. (English) courses, Prerequisite: *English 1 or 16.*

A thorough training in the general laws of versification with special emphasis on the sonnet, ode, and Spenserian stanza; distinctive features of poetic diction; the emotional and intellectual elements of poetry.

Three hours per week for one semester.

Three semester hours credit.

Texts: *Study of Poetry, Connell.*

Nature of Poetry, Stedman.

Lycidas, Milton.

Golden Treasury, Palgrave.

Assistant Professors KEVILLE and McDONALD.

English 3. Literature. This course is obligatory for all students of the A.B. and Ph.B. (Latin) courses. Prerequisite: four entrance units credit.

A thorough study of literature, its characteristic qualities, its position among the other fine arts; the four elements of literature—Emotion, Imagination, Thought and Form, a discussion of each element; divisions of literature.

A study of prose, its nature and province; the formal and informal essay; short story.

A study of poetry, its nature and province; distinctive features of poetic diction, emotional, imaginative and intellectual elements of poetry; Spenserian stanza; Sonnet; Epic; Lyric; and Dramatic Poetry.

Three hours per week for two semesters.

Six semester hours credit.

Texts: Lecture: *Rhetoric and Composition*, Hitchcock.

Study of Poetry, Connell.

Aristotle's Theory of Poetry and Fine Arts,
Butcher.

Reading: *Golden Treasury*, Palgrave.

Idea of a University, Newman.

Essay on Poetry, Watt.

Professor KIMBALL and Assistant Professors BOURSY, MAXWELL, McDONALD, HALE and TRIBBLE

English 4. English Literature, History and Criticism. This course is obligatory for all students of the A.B. and Ph.B. (Latin) courses.

The Elizabethan Age to Pope (1603-1730); Lake School to Victorian Age.

One hour per week for two semesters.

Two semester hours credit.

Text: *Primer of English Literature*, Brooke.

Professor KIMBALL and Assistant Professors BOURSY, HALE, MAXWELL, McDONALD and TRIBBLE.

English 5. Precepts of Oratory. This course is obligatory for all students of the A.B., Ph.B., and B.S. courses. Prerequisite: *English 2, 16, or 3.*

The theory of art and oratory; analysis and study of oratorical masterpieces; preparation of briefs and the composition of speeches.

Three hours per week for two semesters.

Six semester hours credit.

Texts: Lecture: *Oratorical Composition*, Coppens.

Notes on Oratory, Holy Cross Press.

Analysis: *Bristol Speech*; *Speech on Conciliation*, Burke.
Selections, Bradley.

Professors O'DRAIN and DWYER and Assistant Professors BARRENGER, BURKE, FLANAGAN, O'KEEFE, REED and MR. MCCARTIN.

English 6. Shakespeare. Obligatory for all students of the A.B., Ph.B., and B.S. courses. Prerequisite: *English 2*, 16 or 3.

A brief survey of the Drama before Shakespeare; Shakespeare as a poet and a playwright; reading of some of his plays; class study of the tragedies, Macbeth or Hamlet; of the comedies, Merchant of Venice or the Twelfth Night.

One hour per week for two semesters.

Two semester hours credit.

Professors O'DRAIN and DWYER and Assistant Professors BARRENGER, BURKE, FLANAGAN, O'KEEFE, REED and MR. MCCARTIN.

English 7. English Literature of the Fifteenth and Sixteenth Centuries. This course is elective for Juniors and Seniors in the A.B. and Ph.B. courses.

This course comprises a literary appreciation and historical discussion of Epics, Romances, and Allegories of those centuries.

Edmund Spenser (1552-1599): *The Faerie Queene*; its thesis, its art, its value in national propaganda, its religious prejudices. For comparative study, Dryden's *Hind and Panther*; Bunyan's *Pilgrims' Progress*; Thompson's *Hound of Heaven*; Chesterton's *Ballad of the White Horse*, and his *Lepanto*.

The Arthurian Legends: Sir Thomas Malory (1400-1470). The early chroniclers of Arthur; the accretion in the legends; the later development.

For comparative reading: *Roman de la Rose*, *Song of Roland*; Irish epical tales.

Ariosto (1470-1533). *The Orlando Furioso*: its literary and historical sources, its art and purpose as estimated by Ariosto's contemporaries, its expression of philosophy of life, its contribution to the growth of continental literature.

Tasso (Torquato, 1544-1595). *The Jerusalem Delivered*: its epical structure and character in comparison with the *Iliad* and *Aeneid*; the Crusades as a quarry for literary material; neglect of these sources in English literature; courtly patronage of letters as in the careers of Ariosto and Tasso; the "Kingdom" in the exercises of St. Ignatius.

Camoens (1534-1579). The *Lusiad*: building a nation's literature, the significance of such an epic in national culture; the art in the structure of the *Lusiad*; the influence on literature of the geographical discoveries, as in the case of Vasco da Gama; the romance values in the apostolic career of St. Francis Xavier.

Spanish Versions of *Amadis de Gaula* (1508). Origins and growth of this romantic material; the various adaptations; its symbolisms.

Cervantes (1547-1616). The Romance in prose; *Don Quixote*, a national book, curative satire.

The splendor of the Spanish dramatists: Lope de Vega (1562-1635); his *Dragontea*; his work along the lines of Ariosto and Tasso; his influence on the school of drama.

Calderon (1600-1681): his autos sacramentales; tributes to him in English literature,—Shelley, Edward Fitzgerald, James Russell Lowell; his *Magico Prodigioso*; Denis Florence McCarthy's translations.

Oral discussions and written themes on material drawn from the above chapters; Composition (theory and practice):—the familiar essay, the publicist essay, the ancient and modern principles of style; reading of stylists, ancient and modern; criticism of the principles of both the classic and modern schools.

Three hours per week for two semesters.

Six semester hours credit.

Texts: *Professor's Notes*.

(Not offered 1928-1929.)

English 8. English Literature of the Eighteenth Century. This course is elective for Juniors and Seniors in the A.B. and Ph.B. courses.

The Neo-classicism of Pope; the rise of the periodical essay (Addison and Steele); miscellaneous prose; Defoe, Swift; the rise of the English novel; Richardson, Fielding, Smollett, Sterne; Johnson and his circle: Boswell, Burke, Gibbon; the drama: Goldsmith, Sheridan; diarists and letter-writers: Burney, Montague, Walpole, Chesterfield; transition to naturalism and romance: Collins, Gray, Cowper, Crabbe, Blake, Burns. Outside reading in selected works of each author with frequent written reports.

Four hours per week for one semester.

Four semester hours credit.

Text: *Professor's Notes*.

(Not offered 1928-1929.)

English 9. English Literature of the Nineteenth Century. From the Lyrical Ballads to the Death of Scott. This course is required of students in the Ph.B. (English) course.

The general characteristics of the romantic movement; the Wordsworth group: Wordsworth, Coleridge, Southey, the narrative poetry of Scott and the historical novel; the essayists; Hazlitt, Lamb, Hunt, Landor, De Quincey; the Shelley group: Keats, Shelley, Byron. Outside reading in selected works of each author with frequent written reports.

Three hours per week for two semesters.

Six semester hours credit.

Text: *Professor's Notes*.

Professor DRUMM.

English 10. Drama. One-Act Play. This course is elective for Juniors and Seniors in the A.B. and Ph.B. courses.

After a brief resumé of the drama, the major part of this course is spent in the study of the one-act play, its beginning, development, and technique. Its fundamental principles are explained and illustrated from the more famous plays of this type.

(Not offered 1928-1929.)

English 11. Contemporary Drama. This course is elective for Juniors and Seniors in the A.B. and Ph.B. courses. Prerequisite: *English 10*.

This course aims to give a general outline of the more salient features of Contemporary Drama. Beginning with the latter part of the 19th Century, the authors and tendencies of modern drama are discussed, and the plays of the outstanding American and European authors read and analyzed.

(Not offered 1928-1929.)

English 12. Public Speaking. This course is obligatory for Freshmen in the A.B., Ph.B., and B.S. courses.

Principles of voice culture; vocal interpretation of Literature; extempore speaking, debating.

One hour per week for two semesters.

Two semester hours credit.

Text: Lecture: *Professor's Notes*.

Assistant Professor MCCANN.

English 13. Public Speaking. Advanced Course. This course is elective for Sophomores in the A.B. and Ph.B. courses.

Practice in extempore speaking and in the composition and delivery of the common forms of the occasional address; debating.

One hour per week for two semesters.

Two semester hours credit.

Text: Lecture: *Professor's Notes.*

Assistant Professor GARRISON.

English 14. History of English Literature. Obligatory for all students in the Ph.B. course.

Three hours per week for two semesters.

Six semester hours credit.

Text: *History of English Literature, Shuster.*

Assistant Professor MAXWELL.

English 15. Mechanics of English. This course is obligatory for Sophomores in the Ph.B. (English) course and Freshmen in the A.B. and Ph.B. (Latin) courses.

A general review of all fundamentals of prose composition, such as: grammar, choice of words and expressions, paragraph structure, types of themes, organization of material and presentation of ideas.

One hour per week for two semesters.

Two semester hours credit.

Text: *Mechanics of English, Geever and Jones.*

Instructor's Notes.

MR. FOLEY.

English 16. English Composition, Mechanics of English and General Rhetoric. This course is obligatory for Freshmen in the B.S. and Ph.B. (English) courses.

A general review of all fundamentals of prose composition; choice of words, elegance, vigor and variety of expression; thought development; rhythm and movement of sentences; the finer points of style, correlation, economy and suggestion; laws governing narration, description and exposition.

Three hours per week for one semester.

Three semester hours credit.

Texts: *Model English I, II, III, Donnelly.*

Rhetoric and Composition, Hitchcock.

Mechanics of English, Geever and Jones.

Assistant Professors KEVILLE and McDONALD.

English 17. The English Novel in the Nineteenth Century. This course is elective for Juniors and Seniors in the A.B. and Ph.B. courses.

Major novelists: Jane Austen, Scott, Dickens, Charles Reade,

Thackeray, Charlotte Bronte, George Eliot, Charles Kingsley, R. L. Stevenson, George Meredith, Thomas Hardy.

Lesser novelists: Miss Edgeworth, Miss Ferrier, John Galt, Frederick Marryat, Bulwer Lytton, Disraeli, George Borrow, Wilkie Collins, Anthony Trollope, Elizabeth Gaskell, Emily Bronte, Richard Blackmore.

Four hours per week for one semester.

Four semester hours credit.

Text: *Professor's Notes*.

Professor DRUMM.

English 18. American Literature from 1870 to 1900. This course is elective for Juniors and Seniors in the A.B. and Ph.B. courses.

The Novel: Mark Twain, Dean Howells, Henry James, Stephen Crane. The Short Story: Bret Harte, G. W. Cable, Mrs. Freeman, Frank Stockton, Thomas Nelson Page, Jack London, O. Henry, Hamlin Garland. Poetry: Walt Whitman, Sidney Lanier, Emily Dickinson, Joaquin Miller, Bret Harte. The Drama: Clyde Fitch, Augustus Thomas, Bronson Howard, William V. Moody, Steele McKaye. The Essay: H. D. Thoreau, John Burroughs, John Muir, Lafcadio Hearn.

Four hours per week for one semester.

Four semester hours credit.

Text: *Professor's Notes*.

Professor DRUMM.

English 19. English Literature of the Nineteenth Century From the Lyrical Ballads to the Death of Scott. This course is elective for Juniors and Seniors in the A.B. and Ph.B. (Latin) courses.

The general characteristics of the romantic movement; the Wordsworth group: Wordsworth, Coleridge, Southey; the narrative poetry of Scott and the historical novel; the essayists; Hazlitt, Lamb, Hunt, Landor, De Quincey; the Shelley group: Keats, Shelley, Byron. Outside reading in selected works of each author with frequent written reports.

Four hours per week for one semester.

Four semester hours credit.

Text: *Professor's Notes*.

(Not offered 1928-1929.)

English 20. Victorian Poetry: 1832 to 1900. This course is elective for Juniors and Seniors in the A.B. and Ph.B. courses.

Alfred Tennyson; Robert Browning; Elizabeth Barrett Browning; Matthew Arnold; The Pre-Raphaelite Group: D. G. Rossetti, Christina Rossetti, William Morris, A. C. Swinburne; Miscellaneous

Poets: Arthur Hugh Clough, Coventry Patmore, Francis Thompson, Edward Fitzgerald, James Thomson.

Four hours per week for one semester.

Four semester hours credit.

Text: *Professor's Notes*.

(Not offered 1928-1929.)

English 21. Contemporary Literature. This course is elective for Juniors and Seniors in the A.B. and Ph.B. courses.

A comparative study of the modern writers in the various countries from 1900 to the present day.

Three hours per week for two semesters.

Six semester hours credit.

Text: *Professor's Notes*.

Assistant Professor MAXWELL.

English 22. Advanced English Composition. This course is elective for Juniors and Seniors in the A.B. and Ph.B. courses.

A brief review of the principles of English Composition; creative work along original lines; weekly composition.

One hour per week for two semesters.

Two semester hours credit.

Text: *Professor's Notes*.

Assistant Professor MAXWELL.

GREEK

Professors D'ANDRASSY, MICHAUD, NELLIGAN and O'DRAIN

Assistant Professors FLANAGAN, O'BRIEN, O'KEEFE and MR. CERVINI

Courses 1 and 2 are accommodated in subject-matter to those who are mature in Latin and English, and who have put into practice in their preparatory training, habits of study, observation, and attention that evidence the serious student.

Greek 1. Elementary Greek. This course is obligatory for all Freshmen in the A.B. course, entering the College without any secondary preparation in Greek.

Vowel, diphthong, and consonant observations; accent; declensions; conjugations; study of verbs, regular and irregular; formation of tenses.

The vocabulary of the student is naturally extended by simple sen-

tences. The nominative-genitive inflection is recited, as is the comparison of adjectives and adverbs, and particularly in the same way the six principal parts of the verb given when met for the first time. The early use of an elementary dictionary is required. Correct letter formation of the Greek script is insured by systematic practice.

Four hours per week for one semester.

Four semester hours credit.

Texts: *Grammar, Connell.*

Reader, Connell.

Professor NELLIGAN and MR. CERVINI.

Greek 2. Elementary Greek. This course is a continuation of *Greek 1*, and is obligatory for Freshmen of the A.B. course without any secondary preparation in Greek.

Occasional review of *Greek 1* as needed; rules of syntax; selections from Xenophon's *Anabasis*, Books I-IV; St. Luke's Gospel; Selections from Lucian; the reading of selected monographs on Xenophon as given in standard encyclopedias; a thorough study of the life and times of Xenophon as given in the introduction of the Harper and Wallace edition.

Four hours per week for one semester.

Four semester hours credit.

Texts: *Grammar, Connell.*

Xenophon, Harper and Wallace.

Selections, Lucian.

Professor NELLIGAN and MR. CERVINI.

Greek 3. Intermediate Greek. This course is obligatory for all Freshmen in the A.B. course, entering the College with only two years of preparation in Greek.

The reading of selected passages in the original from the first six books of the *Iliad*, together with a comprehensive knowledge of the entire epic based upon the Lang, Leaf, Myer edition. A comparative study of Chapman's Translations is made. Sight reading is based on the *Anabasis* of Xenophon.

Four hours per week for one semester.

Four semester hours credit.

Texts: *Homer's Iliad, Keep.*

Translations, Chapman.

Xenophon, Harper and Wallace.

Professor D'ANDRASSY.

Greek 4. Intermediate Greek. This course is a continuation of *Greek 3*, and is obligatory for all Freshmen in the A.B. course with only two years of preparation in Greek.

The reading of the Greek tragedy, *Hecuba*, together with a study of the Greek tragedy viewed in the light of the principles of dramatic poetry as exemplified in Connell's *Text-book on Poetry*. The *Apology* of Plato. References: Jebb, Browne, Murray, Moulton, Dyer, Flag, Stock, Xenophon's *Memorabilia*.

Four hours per week for one semester.

Four semester hours credit.

Texts: *Euripides' Hecuba*, Bond and Walpole.

Plato's Apology, Jowett.

Text-book on Poetry, Connell.

Professor D'ANDRASSY.

Greek 5. Advanced Greek. This course is obligatory for all Freshmen in the A.B. course who offer three years of preparation in Greek for admission.

The reading of the *Odyssey* of Homer, together with a careful study of the introduction, and continuous reference to the notes and vocabulary. The study of Homer as an epic poet, comparison with the Latin, Italian, and English epic poets.

The reading of Plato's *Apology*, with a careful study of the trial and death of Socrates.

Four hours per week for one semester.

Four semester hours credit.

Texts: *Homer's Odyssey*, Goodwin.

Plato's Apology, Kitchel.

Professors MICHAUD and NELLIGAN.

Greek 6. Advanced Greek. This course is a continuation of *Greek 5* and is obligatory for all Freshmen in the A.B. course with three years of preparation in Greek.

The reading of the *Olynthiacs* of Demosthenes, I, II, III, with a careful study of the life and political activities of the orator; The careful reading of *Euripides' Hecuba*, with a thorough study of the Greek tragedy, its spirit and structure, and the Greek stage; the study of *Euripides*, the dramatist, by the reading of selections from his other plays. Sight reading in selections from *Herodotus*.

Four hours per week for one semester.

Four semester hours credit.

Texts: *Euripides' Hecuba*, Bond and Walpole.

Demosthenes' Olynthiacs, Tyler.

Herodotus, Merry.

Professors MICHAUD and NELLIGAN.

Greek 7. Intermediate Greek. This course is obligatory for all Sophomores in the A.B. course, who offer as credit *Greek 1* and *2*.

A comprehensive knowledge of the story of the *Iliad* from the close reading of the translation of Lang, Leaf, and Myer edition is assumed. Likewise credit for approximately 1500 lines of the original text of the *Iliad* is required.

The *Odyssey* of Homer: Books IX and X are read, together with a careful study of the introduction, and continuous reference to the notes and vocabulary. References: Jebb, Lang, Leaf, Murray, Gladstone, Translation—Butcher and Lang, Cowper, Worsley, Bryant.

The reading of Plato's *Apology*, with a careful study of the trial and death of Socrates. References: Dyer, Flagg, Stock, Kitchel, Xenophon's *Memorabilia*.

Four hours per week for one semester.

Four semester hours credit.

Texts: *Homer's Odyssey*, Goodwin.

Plato's Apology, Jowett.

Professor O'DRAIN and Assistant Professors FLANAGAN, O'BRIEN, and O'KEEFE.

Greek 8. Intermediate Greek. This course is a continuation of *Greek 7*, and is obligatory for all Sophomores in the A.B. course who offer as credit *Greek 1*, *2*, and *7*.

The reading of Euripides' "*Hecuba*," with a thorough study of Greek tragedy, its spirit and structure, and the Greek stage. The reading of the *Olynthiacs* of Demosthenes, I, II, III, with a careful study of the life and political activities of the orator.

Four hours per week for one semester.

Four semester hours credit.

Texts: *Euripides' Hecuba*, Bond and Walpole.

Olynthiacs, Tyler.

Professor O'DRAIN and Assistant Professors FLANAGAN, O'BRIEN and O'KEEFE.

Greek 9. Advanced Greek. This course is obligatory for all Sophomores in the A.B. course who offer as credit *Greek 3* and *4*, or *5* and *6*.

A study of the principles of Oratorical Composition and Rhetorical Analysis is made as exemplified in the *Phillippics* of Demosthenes, together with a study of the historical issue at hand.

A careful reading of Sophocles' *Oedipus Tyrannus*, with character study and analysis, and study of the development and function of the Greek Chorus.

Four hours per week for one semester.

Four semester hours credit.

Texts: *Sophocles' Oedipus Tyrannus*, White.

Demosthenes' Philippics, I, II, Tyler.

Assistant Professor O'BRIEN.

Greek 10. Advanced Greek. This course is a continuation of *Greek 9*, and is obligatory for all Sophomores in the A.B. course who offer as credit *Greek 9*.

A careful study of Demosthenes' "De Corona" with comparative study of Aeschines against Ctesiphon.

Four hours per week for one semester.

Four semester hours credit.

Text: *Demosthenes' De Corona*, Tyler.

Assistant Professor O'BRIEN.

Greek 11. Advanced Greek. This course is obligatory for all Juniors in the A.B. course who were admitted to the College without two years of preparation in Greek in the secondary schools, and may be elected by Juniors who have credit for *Greek 5, 6, 9, and 10*.

The reading of Demosthenes' *De Corona* with comparative study of Aeschines against Ctesiphon.

The reading of Sophocles' *Oedipus Tyrannus* with study of Jebb's translation of *Oedipus*, *Coloneus*, and *Antigone*.

The reading at sight of select passages of Thucydides.

Reference work in Barry's *History of Greek Literature*, chapters treating of Attic Eloquence, and Ancient Classic Tragedy—Moulton, Donaldson, Connell.

The reading of select choral odes from Aeschylus' *Prometheus Bound* and the *Persians*, with a study of Morshead's *Translations of Agamemnon*, *Choephorei*, *Eumendies*.

The reading of Aristophanes' *Frogs*, with close study of Roger's translation of *Knights*, *Birds*, *Clouds*.

The reading of the Fourth Pythian Ode of Pindar—the original compared with the English version of Myers.

Reference work in Moulton's *Ancient Classic Drama* and Symonds' *Greek Poets*.

Literary values are stressed. Courses of reading and study arranged for individual student in private conference with the professor.

Four hours per week for two semesters.

Eight semester hours credit.

(Not offered 1928-1929.)

Greek 12. Greek Tragedy. Elective for Juniors and Seniors in the Arts course.

A critical study of the Greek tragedy in general, its spirit and structure, the development and function of the Greek chorus; a comparative study of Euripides and Sophocles as tragedians by a comparative study of their works.

Two hours per week for two semesters.

Four semester hours credit.

(Not offered 1928-1929)

GERMAN

Professors CARL and D'ANDRASSY

The courses offered in German are intended for those students who either desire to specialize in Chemistry or Engineering or who intend to follow the profession of medicine. It is essential for the above mentioned students to have a reading knowledge of German, for German has its greatest literature in Chemistry, Engineering, and other sciences. Consequently, they, in making their selection, should elect German.

German 1. Elementary German. Elective for students who have not presented German for admission.

A thorough drill in the rudiments of the grammar, supplemented by the writing of English prose into German, involving the more usual syntactical constructions; drills in dictation and conversation; translation of selections from modern authors into idiomatic English.

Three hours per week for two semesters.

Six semester hours credit.

Texts: *German Grammar, Bacon.*

Märchen und Ergänzungen I and II.

Professor CARL.

German 2. Elementary German. Elective for students offering *German 1*, and students who have presented elementary German (one year) for admission.

Reading of easy, modern German prose in the forms of stories, historical sketches, or scientific treatises; a thorough review of the grammar, supplemented by the writing of English prose into German, involving the more unusual syntactical constructions; dictation; discussion in German of scientific theories.

Three hours per week for two semesters.

Six semester hours credit.

Texts: *Bacon's German Grammar.* (Complete)

German Science Reader, Gare.

William Tell, Schiller.

(Not offered 1928-1929.)

German 3. Intermediate German. Elective for students offering *German 2*, and students who have presented elementary German (two years) for admission.

Reading of modern and classical authors; a thorough review of the grammar, supplemented by the writing of English prose into German, involving all syntactical constructions; dictation; discussion in German of the scientific theories exposed by the authors read.

Three hours per week for two semesters.

Six semester hours credit.

Texts: *German Grammar, Bacon.*

Krüger and Smith's German Conversation Book.

Jungfrau von Orleans, Schiller.

Professor D'ANDRASSY.

German 4. Advanced German. Elective for students offering *German 3*, and students who have presented Intermediate German for admission.

Reading of modern and classical prose writers and poets; review of the grammar; dictation; conversation; literary criticisms; composition of German verse.

Three hours per week for two semesters.

Six semester hours credit.

Texts: *Chemical German, Greenfield.*

Faust, Parts I and II, Goethe.

(Not offered 1928-1929.)

German 5. German Literature. Elective for students offering *German 2*, and students who have presented elementary German (two years) for admission.

A general survey of the history of German literature; the different periods of German literature; lectures; suggested readings; monthly reports; bi-annual themes of thousand words on assigned subjects.

Three hours per week for two semesters.

Six semester hours credit.

Text: *Professor's Notes.*

(Not offered 1928-1929)

German 7. Scientific German. Required of Senior pre-medical students offering *German 1*. Optional for B.S. students.

A comprehensive course in *German 8* and *9*.

Six hours per week for one semester.

Six semester hours credit.

Texts: *German Grammar, Bacon.* (Complete)

German Science Reader, Wait.

Chemical German, Phillips.

Selected Articles, Current Scientific Periodicals.

(Not offered 1928-1929.)

German 8. Scientific German. Required of pre-medical students in the Junior year offering *German 1*. Optional for B.S. students.

The purpose of this course is to make the student familiar with the more technical terminology of modern scientific German. Reading of *Wait: German Science Reader*, and selected articles from current scientific periodicals.

One hour per week throughout the year.

Two semester hours credit.

Texts: *German Grammar, Bacon.* (Complete)

German Science Reader, Wait.

Selected Articles, Current Scientific Periodicals.

(Not offered 1928-1929)

German 9. Advanced Scientific German. Required of pre-medical students in the Senior year offering *German 8*. Optional for B.S. students.

A continuation of Course 8. Reading of *Phillips: Chemical German*, and selected articles from current scientific periodicals.

One hour per week throughout the year.

Two semester hours credit.

Texts: *German Grammar*, Bacon.

Chemical German, Phillips.

Selected Articles, *Current Scientific Periodicals*.

(Not offered 1928-1929.)

HISTORY

Professor MURPHY

Assistant Professors BREEN, BURKE and KEVILLE

History 1. The Middle Ages. This course is obligatory for all Sophomores in the A.B., Ph.B., and B.S. courses.

The conditions of Europe at the close of the Tenth Century; Feudalism; Moral revival of the Eleventh Century; the Cluniac Reform; Hildebrand and his successors. The Medieval Church; the Papacy, Monasticism and the Sacramental System; The Crusades; Social and Economic features of the Middle Ages; Medieval Education; Expansion of Europe to the East; the Renaissance.

Three hours per week for one semester.

Three semester hours credit.

Text: *Volume II*, Guggenberger.

(Not offered 1928-1929)

History 2. The Reformation. This course is obligatory for all Sophomores in the A.B., Ph.B., and B.S. courses. Prerequisite: *History 1*.

Causes and occasions of the religious upheaval of the Sixteenth Century; the true nature of the religious revolt of the Sixteenth Century as opposed to the traditional ex parte views; the expansion of Europe into new lands; the French Revolution.

Three hours per week for one semester.

Three semester hours credit.

Text: *Volume I*, Hayes.

(Not offered 1928-1929)

History 3. Universal History. This course is elective for Juniors and Seniors in the A.B. and Ph.B. courses.

A course dealing with the most important historical events from the early Middle Ages to Modern Times.

Three hours per week for two semesters.

Six semester hours credit.

Text: *Professor's Notes*.

(Not offered 1928-1929)

History 4. History of Law. This course is elective for Juniors and Seniors in the A.B. and Ph.B. courses.

Three hours per week for two semesters.

Six semester hours credit.

Text: *Professor's Notes.*

(Not offered 1928-1929)

History 6. Christian Antiquity to the Reformation. Required of Freshmen in the A.B. and Ph.B. courses.

Three hours per week for two semesters.

Six semester hours credit.

Texts: *Volume II, Guggenberger.*

Professor's Notes.

Assistant Professors KEVILLE, BREEN and BURKE.

History 7. Europe, From the Reformation to the World War. Required of Sophomores in the A.B., B.S., and Ph.B. Courses.

Three hours per week for two semesters.

Six semester hours credit.

Texts: *Volume I, Hayes.*

Professor's Notes.

Professor MURPHY and Assistant Professors KEVILLE, BREEN, and BURKE.

History 8. Political Science. Required of Seniors, non-pre-medical students, in the A.B. and Ph.B. courses.

Nature and Scope; Systems of Government; Political Parties; Administration.

Two hours per week for two semesters.

Four semester hours credit.

Texts: *Professor's Notes.*

Professor MURPHY.

History 9. Constitutional History of the United States. Elective for Seniors in the A.B. and Ph.B. courses; required of students in the pre-legal course.

The origin of the Union, the Confederation; the struggle for the present Constitution; real character of the Constitution; internal dissensions during Washington's administration; Alexander Hamilton. The influence of the French Revolution. The fall of Federalism; Jefferson; the purchase of Louisiana; history of slavery to 1787 and compromises in the Constitution; Marshall and the Constitution; his-

tory of Constitutional amendments and consideration of cases illustrating the amendments.

Three hours per week for two semesters.

Six semester hours credit.

Texts: *History of the Constitution*, Cooley.

Professor's Notes.

Assistant Professor BURKE.

LATIN

Professors D'ANDRASSY, DWYER, MICHAUD and O'DRAIN

Assistant Professors BARRENGER, BOURSY, FLANAGAN, GILLERAN,
HALE, McDONALD, MORAN and TRIBBLE

Latin 1. Cicero, Horace, Virgil. This course is obligatory for all students in the A.B. and Ph.B. (Latin) courses. Prerequisite: four entrance units credit.

In the beginning of this course the value of humanistic studies and their influences on man are emphasized by the careful study of Cicero's "Pro Archia," carefully analyzing the great orator's opinion on their value and influences. Secondly, a study of the canons on Art, and on Literature in particular is made, as they are exemplified in Horace's "Ars Poetica." Thirdly, a study of the epic style, and especially the style of Virgil, is made by a careful reading of the Ninth Book of the Aeneid.

Five hours per week for one semester.

Five semester hours credit.

Texts: *Pro Archia*, Cicero.

Ars Poetica, Horace.

Aeneid, Book IX, Virgil.

Professors D'ANDRASSY and MICHAUD and Assistant Professors BOURSY, HALE, McDONALD, MORAN and TRIBBLE.

Latin 2. Horace and Cicero. This course is obligatory for all students in the A.B. and Ph.B. (Latin) courses. Prerequisite: *Latin 1*.

This course is a continuation of *Latin 1*, comprising a study of Latin lyric poetry by the reading of the Odes of Horace as examples of the classical lyrics; and serves as an introduction to courses 4 and 5 by acquainting the student with the fundamentals of Rhetorical Analysis in the reading and analysis of Cicero's "Pro Marcello."

Five hours per week for one semester.

Five semester hours credit.

Texts: *Selections from the Odes*, Horace.

Pro Marcello, Cicero.

Professors D'ANDRASSY and MICHAUD and Assistant Professors BOURSY, HALE, McDONALD, MORAN and TRIBBLE.

Latin 3. Latin Composition. This course is obligatory for all students in the A.B. and Ph.B. (Latin) courses.

A written exercise, once a week, in prose composition, in imitation of Ciceronian style; one exercise semi-monthly in verse composition.

One hour per week for two semesters.

One semester hour credit.

Texts: *Aids to Latin Composition*, Bradley.

Elegiac Verse, Lupton.

Professors D'ANDRASSY and MICHAUD and Assistant Professors BOURSY, HALE, McDONALD, MORAN and TRIBBLE.

Latin 4. Cicero, Horace and Juvenal.

A study of the Latin Satirists, Horace and Juvenal, and their influences on modern literature. A special study of Oratorical Composition and Analysis is made by a thorough study of the principles of Oratorical Composition as exemplified in Cicero's "Pro Lege Manilia."

Six hours per week for one semester.

Six semester hours credit.

Texts: *Pro Lege Manilia*, Cicero.

Selections from the Satires, Horace.

Selections, Juvenal.

References: *Rhetoric*, Aristotle (Cope-Sandys Edition).

De Oratore, Cicero.

Instit. Orat., Quintilian.

(Not offered 1928-1929)

Latin 5. Cicero and Tacitus.

The study of Tacitus as a stylist. A further study of the principles of Oratorical Composition by a thorough analysis of Cicero's "Pro Milone."

Six hours per week for one semester.

Six semester hours credit.

Texts: *Pro Milone*, Cicero.

Annales, Tacitus.

References: *Whately*.

Bain.

Genung.

(Not offered 1928-1929)

Latin 6. Latin Composition. This course is obligatory for all students in the A.B. and Ph.B. (Latin) courses. Prerequisite: *Latin 3.*

A written exercise once a week in prose composition in imitation of Ciceronian style; one exercise monthly in lyric and satirical verse.

One hour per week for two semesters.

One semester hour credit.

Texts: *Professor's Notes.*

Lyric Composition, Lupton.

Models from Horace, Persius and Juvenal.

Professors DWYER and O'DRAIN and Assistant Professors BARRENGER, FLANAGAN and GILLERAN.

Latin 10. Conversational Latin. This course is elective for Juniors and Seniors in the A.B. and Ph.B. (Latin) courses.

Two hours per week for two semesters.

Four semester hours credit.

Text: *Professor's Notes.*

(Not offered 1928-1929)

Latin 11. Cicero and Tacitus. This course is obligatory for all students in the A.B. and Ph.B. (Latin) courses. Prerequisite: *Latin 2.*

The study of Tacitus as a stylist. A special study of Oratorical Composition and Analysis is made by a thorough study of the principles of Oratorical Composition as exemplified in Cicero's "Pro Lege Manilia."

Five hours per week for one semester.

Five semester hours credit.

Texts: *Orations of Cicero, Bennett.*

Tacitus, Annales, Holy Cross Press.

References: *Whately, Bain, Genung.*

Professors DWYER and O'DRAIN and Assistant Professors BARRENGER, FLANAGAN, and GILLERAN.

Latin 12. Cicero, Horace and Juvenal. This course is obligatory for all students in the A.B. and Ph.B. (Latin) courses. Prerequisite: *Latin 11.*

A study of the Latin Satirists, Horace and Juvenal, and their influences on modern literature. A further study of the principles of Oratorical Composition is made by a thorough analysis of Cicero's "Pro Milone."

Five hours per week for one semester.

Five semester hours credit.

Texts: *Orations of Cicero, Bennett.*

Works of Horace, Bennett.

Juvenal, Selections, Holy Cross Press.

Professors DWYER and O'DRAIN and Assistant Professors BARRENGER, FLANAGAN and GILLERAN.

MATHEMATICS

Professor MERRICK

Assistant Professors McDONALD and SHEEHAN

MESSRS. NESTOR, MORAN, O'RORKE, BOWEN, and TOBIN

Mathematics 1. Plane Trigonometry. This course is obligatory for students in the Freshman class of the A.B. course who did not offer Plane Trigonometry for admission.

An introductory course in Trigonometry, treating the function of acute angles, use of natural functions, logarithms, solution of the right triangle and oblique triangle and other trigonometric operations.

Two hours per week for two semesters.

No degree credit allowed.

Text: *Trigonometry, Wentworth.*

MESSRS. NESTOR, O'RORKE, and TOBIN.

Mathematics 2. Algebra and Plane Trigonometry. This course is obligatory for all first year students in the B.S. course.

This course is intended to give the thorough working knowledge of algebra and plane trigonometry necessary as a basis for work in the sciences.

The course is given under the following subdivisions: Factoring; Fractions; Linear Equations; Exponents and Logarithms; Radicals; Quadratic Equations; Functions and their Graphs; Advanced Topics in Quadratic Equations and Systems of Equations Involving Quadratics; Mathematical Induction; Inequalities; Complex Numbers; Theory of Equations and Approximate Roots; Permutations and Combinations; Probability; Trigonometric Functions and Solution of Right Triangles; Trigonometric Functions of Any Angle; Relations between Trigonometric Functions; Trigonometric Analysis;

General Values of Angles; Inverse Trigonometric Functions; Trigonometric Equations; Graphical Representation of Trigonometric Functions; Solution of Oblique Triangles.

Four hours per week for two semesters.

Eight semester hours credit.

Text: *College Algebra, Hart; Plane Trigonometry, Granville.*

MR. MORAN.

Mathematics 3. Mathematical Analysis. This course is obligatory for all second year students in the B.S. course.

The course is given under the following subdivisions: Rates, mean values, extremes, zero values, formulae; Instantaneous rates, tangents, areas, etc., as limits; Derivatives of polynomials and power functions, rates extremes, maxima and minima; Simple integrals, areas, volumes momentum, work, fluid pressure, falling bodies; Logarithmic and Exponential Functions, compound interest law, logarithmic and semi-logarithmic graphs, differentiation and integration of logarithmic and exponential functions; Rectangular Coordinates, equations of motion, Analytic Geometry; line, circle, parabola, ellipse, hyperbola; translation, intersections; Solution of Equations, Horner's and Newton's methods; Polar Coordinates, periodic variations, derivatives; Trigonometric Analysis, basic identities, equations, involutes, cycloids, simple harmonic motion, damped oscillations, addition formulae, sums and products; Definite Integrals, length of arcs, surfaces of revolution, double integration, partial derivatives, Simpson's rule; Progressions and Series, investment theory, MacLaurin's series, binomial theorem; Permutations, Combinations, and Probability, normal probability curve, method of least squares; Complex Number System, definitions, geometric representation, operations and applications.

Four hours per week for two semesters.

Four semester hours credit.

Text: *Introduction to Mathematical Analysis, Griffin.*

Assistant Professor MERRICK.

Mathematics 4. Pedagogical Mathematics. Elective for Juniors and Seniors in the A.B., Ph.B., and B.S. courses.

Introduction to concepts and methods of mathematical analysis; a systematic review of Algebra: fundamental operations, permutations and combinations; probability; theory of equations; limits; series; functions, algebraic and trigonometric.

This course is designed for students who expect to teach as well as those who are preparing for advanced work in Mathematics.

Three hours per week for two semesters.

Six semester hours credit.

Texts: *Mathematical Analysis*, Young and Morgan.

Complete Algebra, Wentworth.

(Not offered 1928-1929)

Mathematics 5. Calculus, Differential and Integral. This course is elective for Juniors in the B.S. course. Prerequisite: *Mathematics 3.*

The course is given under the following subdivisions: Differentiation of standard elementary forms; Simple applications of the derivative; Successive differentiation; Maxima and minima; Differentials; Rates; Change of variable; Curvature; Indeterminate forms; Partial differentiation; Envelopes; Series; Expansion of functions; Asymptotes; Integration of standard elementary forms; Definite integral; Integration of rational fractions; Rationalization; Integration, a process of summation; Successive and partial integration.

Four hours per week for two semesters.

Eight semester hours credit.

Text: *Elements of Differential and Integral Calculus*, Granville.

Assistant Professor SHEEHAN.

Mathematics 6. Obligatory for all students of the Ph.B. course.

A one-year course consisting of College Algebra, Analytic Geometry, Trigonometry, and Calculus. A rapid survey is made of the elements of Algebra, equations—linear, simultaneous and quadratic, the binomial theorem and progressions. The functional idea is then studied as the approach to Trigonometry and Analytical Geometry. Calculus is surveyed in order that the student might have a working knowledge of derivatives and integrals.

Throughout the course emphasis is placed upon such parts of Mathematics which are applicable in the sciences or the subsequent work in Mathematics itself.

Three hours per week for two semesters.

Six semester hours credit.

Text: *Freshman Mathematics*, Mullins and Smith.

MR. BOWEN.

Mathematics 7. Calculus, Differential and Integral. This course is elective for Seniors in the B.S. course. Prerequisite: *Mathematics 5.*

This course supplements *Mathematics 5.*

Three hours per week for two semesters.

Six semester hours credit.

Text: *Elements of Differential and Integral Calculus*, Granville.

(Not offered 1928-1929)

Mathematics 8. Differential Equations. This course is elective for students in the B.S. course. Prerequisite: *Mathematics 5.*

An introductory course in differential equations, covering equations involving two variables.

Three hours per week for two semesters.

Six semester hours credit.

Text: *Differential Equations, Murray.*

Assistant Professor McDONALD.

PHILOSOPHY

Professors SULLIVAN and KOEN

Assistant Professors GRAHAM, O'CONNELL, SHEA, WELCH and ASSISTANTS

Philosophy 1. Logic. This course is obligatory for all Juniors in the A.B., Ph.B., and B.S. courses.

Definition and division of Philosophy; natural and artificial logic; the three operations of the mind: idea, judgment, and reasoning.

The study of the Idea: definition, extension and comprehension—division—the universal idea, predicables and predicaments. Terms, mental and oral—division—analogy and supposition.

The study of the Judgment: definition—propositions, their nature and division—extension and comprehension of the predicate—quantity and quality of propositions—opposition, conversion and equivalence of propositions.

The study of Reasoning: the syllogism, various kinds and their laws—figures and modes; other forms of argumentation; Demonstration and its divisions; Deduction and induction, complete and incomplete.

Nine hours per week for one-half semester.

Four and one-half semester hours credit.

Text: *Notes on Logic*, Holy Cross Press.

Assistant Professors GRAHAM, O'CONNELL, SHEA, WELCH and ASSISTANTS.

Philosophy 2. Epistemology. This course is obligatory for all Juniors in the A.B., Ph.B., and B.S. courses. Prerequisite: *Philosophy 1.*

The study of Truth: logical and moral truth; Falsity; The study of truth and falsity as completely found in the judgment; the study

of the general and partial causes of falsity; the study of the mind in relation to truth: ignorance, doubt, opinion and certitude, refutation of Skepticism and Methodic Doubt; the means of arriving at certitude: senses, (external and internal), intelligence, reason, intellectual memory; the rejection of the various schools of Idealism; the establishing of the proximate and ultimate motives and criteria of truth; rejection of false theories; Objective Evidence, the ultimate criterion of truth.

Nine hours per week for one-half semester.

Four and one-half semester hours credit.

Text: *Notes on Epistemology*, Holy Cross Press.

Assistant Professors GRAHAM, O'CONNELL, WELCH, SHEA, and ASSISTANTS.

Philosophy 3. Ontology. This course is obligatory for all Juniors in the A.B., Ph.B., and B.S. courses. Prerequisite: *Philosophy 2*.

The importance of this course lies in the fact that it establishes certain and valid principles that form the basis of advanced work in Natural Theology.

The definition and proof of the objectivity of the idea of Being; the analogy of Being, its descent or contraction; how the precise concept of being is obtained; Essences: physical and metaphysical, their objectivity; the transcendental properties of Being, i. e., unity, truth and goodness; the Possibles: their formal nature and their foundation; rejection of adverse theories; substance and accident: definition and division of, their objectivity; rejection of Locke's theory: Casuality; efficient, formal, material and final—definition and proof of their objectivity—rejection of Occasionalism; Infinite and finite; Nature and person.

Nine hours per week for one-half semester.

Four and one-half semester hours credit.

Text: *Notes on Ontology*, Holy Cross Press.

Assistant Professors GRAHAM, O'CONNELL, WELCH, SHEA, and ASSISTANTS.

Philosophy 4. Cosmology. This course is obligatory for all Juniors in the A.B., Ph.B., and B.S. courses. Prerequisite: *Philosophy 3*.

The study of the origin of the world: Pantheism, Materialism, Creationism; The divine purpose in creating; the world in its nature: finite, composite and contingent; essential constituents of bodies: Dynamic and Atomic theories; Hylomorphism: the nature of matter and form; primary and secondary qualities of bodies; activity of bodies; radio-activity; law of conservation of energy; transmutation of

matter; space and time; Descartes, Clarke, Balmes, on the nature of space; Kant's theory of space and time; laws of nature; miracles.

Nine hours per week for one-half semester.

Four and one-half semester hours credit.

Text: *Notes on Cosmology*, Holy Cross Press.

Assistant Professors GRAHAM, O'CONNELL, SHEA, WELCH, and ASSISTANTS.

Philosophy 5. Fundamental Psychology. This course is obligatory for all Seniors in the A.B., Ph.B., and B.S. courses. Prerequisite: *Philosophy 4*.

Life in General: properties of living and non-living bodies; immanency of action; Scholastic Concept of life.

Plant Life: the plant as a living body; unity and divisibility of the plant soul; the vegetative functions—nutrition, growth, reproduction.

Animal Life: sensitive life; unity and divisibility of the animal soul; instinct and intelligence; theories on the origin of the instinct.

Origin of Life: the Scholastic theory on the origin of the first living bodies; refutation of Spontaneous Generation; the Scholastic doctrine on the origin of the species of plants and animals; Biological Evolution.

Five hours per week for one-half semester.

Two and one-half semester hours credit.

Text: *Fundamental Psychology*, Dolan, S.J.

Professor KOEN and ASSISTANT.

Philosophy 6. Advanced Empirical Psychology. This course is obligatory for all Seniors in the A.B., Ph.B., and B.S. courses. Prerequisite: *Philosophy 5*.

The first part of this course is devoted to a study of sensitive life, including the nature of sensation and its properties; the doctrine of the species; the external and internal senses, hallucinations and dreams; the perception of the material world and the refutation of the skeptical theories of Descartes, Locke, Berkley, Hume, Mill, Bain; the sensuous appetite.

The second part of this course is devoted to a study of intellectual life, including the origin of ideas; the judgment and reasoning; attention and reflection; memory; the rational appetite—the will, its nature and freedom.

Five hours per week for one-half semester.

Two and one-half semester hours credit.

Texts: *Advanced Psychology*, Dolan, S.J.

Psychology, Maher.

Professor KOEN and ASSISTANT.

Philosophy 7. Advanced Rational Psychology. This course is obligatory for all Seniors in the A.B., Ph.B., and B.S. courses. Prerequisite: *Philosophy 6.*

A study of the human soul, its substantiality, individuality, simplicity, and spirituality; refutation of false theories on the nature of the human soul: Hume, Mill, James, Monism, Höffding; origin and destiny of the human soul; refutation of Anthropological Evolution.

Five hours per week for one-half semester.

Two and one-half semester hours credit.

Texts: *Advanced Psychology, Dolan, S.J.*

Psychology, Maher.

Professor KOEN and ASSISTANT.

Philosophy 8. Natural Theology. This course is obligatory for all Seniors in the A.B., Ph.B., and B.S. courses. Prerequisite: *Philosophy 7.*

The Existence of God. Monotheistic philosophers on our knowledge of the existence of God. Ontologism—Malebranche, Gioberti. Rosmini. Traditionalism. Ontological proof of St. Anslem, Descartes, Leibnitz, for the existence of God. The metaphysical proof. The argument from design. The moral proof. Kant, Mill, Spencer, Mallock, et al., on the proofs of God's existence. Atheism. Agnosticism. Religious and moral consequences of Agnosticism.

The Essence of God. The idea of the Infinite. Unity of God. Physical and metaphysical essence. Polytheism. Pantheism. Modern Pantheists: Spinoza, Fichte, Schelling, Hegel. Anthropomorphism. Herbert Spencer, on the anthropomorphic idea of God.

The Divine Attributes. Immortality, Eternity and Immensity of God. St. Thomas, Lessius, Newton, Clarke, on the Immensity of God. Simplicity and Infinity of God. The Divine Intellect and Knowledge. Foreknowledge of God. Objections against the Divine Foreknowledge of free actions. The Divine Will. Freedom of the Divine Will. Omnipotence of God. Mill's objections against the Divine Omnipotence.

Concurrence of God in the Actions of Creatures. Preservation of creatures. Supernatural, natural, mediate and immediate concurrence. St. Thomas and "Premotion." Divine Providence and its relation to physical and moral evils. The possibility of a Supernatural Providence.

Supplementary Questions. Schopenhauer's "World Will." Hartmann's "Unconscious." Hæckel's Monism. Mansel, on contradiction in the idea of God. Spencer, on the idea of the absolute.

Five hours per week for one-half semester.

Two and one-half semester hours credit.

Text: *Natural Theology, Dolan, S.J.*

Professor KOEN and ASSISTANT.

Philosophy 9. History of Philosophy.

A study of the Oriental, Greek, Christian, and Scholastic Schools of Philosophy; Modern Philosophy; various systems and theories of Descartes and his followers, Spinoza, Locke, Hume, Voltaire, Leibnitz, Berkley, Rousseau; the Scottish School and the Transcendentalists; Kant, Fichte, Schelling, Schopenhauer and Hegel; Neo-Kantians; Neo-Scholastics; Thomistic Philosophy under Leo XIII.

Three hours per week for two semesters.

Six semester hours credit.

Texts: *Professor's Notes.*

History of Philosophy, Turner.

History of Philosophy, Coppens, S.J.

(Not offered 1928-1929)

Philosophy 10. General Ethics. This course is obligatory for all Seniors in the A.B., Ph.B., and B.S. courses. Prerequisite: *Philosophy 4.*

Definitions, nature, object, necessity of Ethics; false theories regarding the fundamental principles of Ethics; the ultimate end of man; beatitude; the human act; merit and accountability; the passions; virtue and vice; morality of human acts; false opinions of the nature of morality; the norm of morality and false norms; Utilitarianism and Hedonism; Bentham, Mill and Spencer; the eternal law and the natural law; properties and sanction of the natural law; nature and origin of moral obligation; false theories on the origin of moral obligation; Kant's categorical imperative; Conscience.

Five hours per week for one semester.

Five semester hours credit.

Texts: *Fundamental Ethics*, Holy Cross Press.

Ethics, Leibel.

Professor SULLIVAN and ASSISTANT.

Philosophy 11. Special Ethics. This course is obligatory for all Seniors in the A.B., Ph.B., and B.S. courses. Prerequisite: *Philosophy 10.*

Man's duty to his creator; obligations of accepting Divine revelation; the obligation of inner and outer worship to God; Rationalism; Indifferentism.

Man's duty to himself; Man's duty to preserve himself; suicide.

Man's duty to his neighbor: Direct and indirect killing; killing done in self-defence; lying; mental reservation.

Right of ownership: Communism and Socialism; theories of Henry George; Herbert Spencer on the right of property; modes of acquiring property; rights of disposing property by will; contracts; relations of capital and labor; trade unions; strikes.

Society in general: Nature and end of domestic society; unity and indissolubility of matrimony; divorce; parental authority; education of the child.

Civil Society: Nature, end and origin; false theories on the origin of civil society; Hobbes and Rousseau; the Scholastic doctrine; forms of civil government; citizenship; universal suffrage; the functions of civil government—legislative, judiciary, executive; taxation; death penalty; freedom of worship; freedom of the press; state education.

International Law: Various meanings of *Jus Gentium*; foundation of international law; mutual relations of nations; right of commerce; rights of neutrals; nature and justice of war; arbitration.

Five hours per week for one semester.

Five semester hours credit.

Texts: *Professor's Notes*.

Social Ethics, Fordham University Press.

Ethics, Leibel.

Professor SULLIVAN and ASSISTANT.

Philosophy 12. Seminar. The Seminar which is conducted by the Philosophical Academy is held once a week throughout the year. Philosophical essays and discussions on the various philosophical problems by members of the Aquinas Circle constitute the routine work of the Seminar.

One semester hour credit.

Professor SULLIVAN and the FACULTY.

Philosophy 13. Pedagogical Latin. This course is elective for all Juniors in the A.B. and Ph.B. (Latin) courses.

Class-room discussion conducted in Latin.

Basis of Discussion: the Writings of the Latin Fathers, Tertullian, Minucius Felix, Saint Cyprian, Lactantius, Saint Ambrose, Saint Jerome, Saint Leo the Great, Saint Bernard, Saint Augustine.

Three hours per week for two semesters.

Six semester hours credit.

(Not offered 1928-1929)

Philosophy 14. Pedagogical Latin. Advanced Course. This course is elective for all Seniors in the A.B. and Ph.B. (Latin) courses who offer *Philosophy 13*.

Class-room discussion in Latin.

Basis of Discussion: the Philosophy of Cicero (*Quaestiones Academicae, Tusculanae Disputationes, De Finibus, De Natura Deorum, De Officiis, De Republica, De Senectute, De Amicitia, de Fato*); Lucretius (*De Rerum Natura*); Seneca.

Three hours per week for two semesters.

Six semester hours credit.

(Not offered 1928-1929)

Philosophy 15. Pedagogical Latin. Advanced Course. This course is elective for all Seniors in the A.B. and Ph.B. (Latin) courses who offer Philosophy and Latin credits. Admission to this course is had at the discretion of the Dean and the Board of Admissions.

The object of this course is two-fold: to acquire knowledge of Latin and a knowledge of Scholastic Ethics.

Class-room discussion and Readings in Philosophical Latin.

Basis of discussion and readings: Ethical readings in Latin: Socialism; Right of private ownership; False doctrines and theories concerning property; Domestic and civil society; Origin of the state; Origin of authority; Subject of authority; Industrial and sociological problems of modern society.

Collateral readings: Latin Texts of Scholastic Philosophers.

Five hours per week for one semester.

Five semester hours credit.

Text: *Philosophia Moralís in usum Scholarum, Auctore, Victore Cathrein, S.J.*

Professor SULLIVAN.

PHYSICS

Professor MERRICK

Assistant Professors McDONALD and SHEEHAN

MESSRS. MORAN, NESTOR, O'ROURKE and CASLIN

Physics 1. General Physics. This course is obligatory for all students in the A.B. and Ph.B. courses. Prerequisites: Advanced Algebra, Trigonometry and fundamentals of Analytic Geometry.

This course is intended to give the student an appreciation of the physical phenomena and their laws and it provides a solid basis for a more advanced study of the subject. The method of treatment is historical and physical rather than mathematical. The fundamental

principles of the mechanics of solids, liquids, and gases, wave motion and radiation, sound, heat, light, magnetism, and electricity are treated in the lectures. The lectures are illustrated by numerous and varied lecture table demonstrations, lantern slides, and moving pictures.

The laboratory work is arranged as a complement of the lecture course, so that the student has an opportunity to verify by personal observation and calculation the various laws and their applications. In this part of the course, method in observations and records is insisted upon. The elementary theory of physical measurements and discussion of errors with their applications in written reports are required of the students.

Three lecture hours and one laboratory hour per week for two semesters.

Eight semester hours credit.

Texts: Lecture: *College Physics*, Carhart.

Laboratory: *Professor's Notes*.

Professor MERRICK and Assistant Professor McDONALD and MESSRS. CASLIN, MORAN, NESTOR and O'ROURKE.

Physics 2. Mechanics, Heat and Sound. This course is obligatory for all first year students in the B.S. course. *Mathematics 2* taken simultaneously.

A mathematical treatment designed to meet the needs of the student desirous of pursuing major subjects in Chemistry or Physics.

The course is given under the following sub-divisions: Physical Magnitudes, Units and Measurements; Properties of Matter in General; The Nature and the Measure of Force; Work, Energy and Power; Equilibrium; Motion of Solid Bodies; Gravitation; Machines, Friction; Properties of Elastic Bodies; Pressure in Liquids; Flowing Liquids; Vibrations and Waves; Temperature and Thermal Expansion; Effects and Measurement of Heat, Gases and Vapors; Thermal Energy and Heat Engines; Diffusion, Transfer of Thermal Energy; Sound; Musical Instruments and the Scale.

Three lecture hours per week for the first semester.

Three lecture hours and one laboratory period per week for the second semester.

Seven semester hours credit.

Texts: Lecture: *Textbook of Modern Physics*, Weld and Palmer.

Laboratory: *Mechanics, Sound, Heat, Gipprich*.

Professor MERRICK and MR. MORAN.

Physics 3. Light, Magnetism and Electricity. This course is obligatory for all second year students in the B.S. course. Prerequisite: *Physics 2; Mathematics 3* taken simultaneously.

A continuation of course 2 given under the following sub-divisions: Magnetism, Electric Charges; Steady Electric Currents; Electrochemical Phenomena; Electromagnetism; Induced and Variable Currents; Electro Oscillations and Electric Waves; Ions in Gases and Electrons in Atoms; Light and its Measurement; Mirrors and Prisms; Lenses and Optical Instruments; Color; Polarized Light.

The laboratory work proceeds with the lecture course. The theories of measurements and graphical methods are insisted upon and the student is required to apply these to all laboratory reports.

Each student is required to submit each semester an essay on some subject analogous to the lecture matter.

Three lecture hours and one laboratory hour per week for two semesters.

Eight semester hours credit.

Texts: Lecture: *Textbook of Modern Physics, Weld and Palmer.*

Laboratory: *General Physics for the Laboratory, Taylor Watson and Howe.*

Assistant Professor McDONALD.

Physics 4. Magnetism and Electricity. This course is obligatory for B.S. students majoring in Physics. Prerequisites: *Physics 3* and *Mathematics 3*.

This course is more mathematical than that of *Physics 3*. It is given under the following sub-divisions: Electrolysis; Resistance and Electromotive Force; Induced Electromotive Force; Electric Charge and the Condenser; The Electric Field; The Electron Theory; Electromagnetic and Electrostatic Units; Magnetism of Iron; Electrical Measurements; Elementary Theory of Alternating Currents.

Three lecture hours and one laboratory hour for one semester.

Four semester hours credit.

Texts: *Electricity and Magnetism, Franklin and MacNutt.*

Lessons and Problems in Electricity, Page.

(Not offered 1928-1929.)

Physics 5. Heat and Elementary Thermodynamics. This course is obligatory for B.S. students majoring in Physics. Prerequisites: *Physics 3* and *Mathematics 3*.

The course is given under the following sub-divisions: Thermodynamic Principles and Definitions; Properties of Perfect Gases; Expansion and Compression of Gases; Cycles of Heat Engines using

Gas; Properties of Vapors; Entropy; Expansion and Compression of Vapors; Cycles of Heat Engines using Vapors; Flow of Fluids; Applications of Thermodynamics of Compressed Air and Refrigerating Machinery.

Three lecture hours and one laboratory hour for one semester.

Four semester hours credit.

Text: *Elements of Engineering Thermodynamics*; Moyer, Calderwood, Potter.

(Not offered 1928-1929)

Physics 6. Mechanics. This course is obligatory for B.S. students majoring in Physics. Prerequisites: *Physics 3* and *Mathematics 3*.

The course is given under the following sub-divisions: Simple Statics, Work and Energy; Dynamics of Translatory Motion; Dynamics of Rotary Motion; Hydrostatics; Hydraulics; Statics of Elasticity; Dynamics of Elasticity.

Three lecture hours and one laboratory hour for one semester.

Four semester hours credit.

Text: *Mechanics*, Franklin and MacNutt.

Assistant Professor McDONALD.

Physics 7. Optics. This course is obligatory for B.S. students majoring in Physics. Prerequisites: *Physics 3* and *Mathematics 3*.

The course is given under the following sub-divisions: Object and Image; The Lens; The Single Slit; The Double Slit; N Slits; The Prism; The Critical Angle; Interference Between Two Beams; The Michelson Interferometer; The Parallel-Plate Interferometer; Polarized Light; Rotation of the Plane of Polarized Light; Elliptically Polarized Light; The Reflection of Polarized Light; The Spectrophotometer.

Three lecture hours and one laboratory hour for one semester.

Four semester hours credit.

Texts: *College Manual of Optics*, Taylor.

Light, Drisko.

Assistant Professor McDONALD.

Physics 8. Mechanical Drawing. Elective for Junior and Senior B.S. students majoring in Physics.

First Term. Instruction in the correct use of drafting instruments and materials. Drawings are made in pencil and in ink, on paper and on tracing cloth and include isometric and oblique projections. Practice is given in lettering. Neatness and accuracy are required.

Second Term. A continuation of the above course giving instruction in simple perspective projections, the construction of conics and rolled curves, the making of dimensioned freehand sketches from machine parts and of accurate detail drawings from the sketches.

Two hours per week for two semesters.

Two semester hours credit.

Assistant Professor McDONALD and MR. MORAN.

Physics 9. Descriptive Geometry. Elective for Junior and Senior B.S. students majoring in Physics.

First Term. A study of the fundamental operations of orthographic projection and elementary problems on lines, planes, and solids.

Instruction is given by means of lectures and individual class-room supervision, with especial emphasis upon the student's ability to visualize the problems and methods of solution.

Second Term. A continuation of the above course including sections, developments, tangent lines and planes, and intersections of surfaces of revolution.

Two hours per week for two semesters.

Two semester hours credit.

Professor McDONALD and MR. MORAN.

Physics 10. Mechanics, Sound and Heat. This course is elective for Juniors in the A.B. and Ph.B. courses; obligatory for Junior Pre-medical students in the A.B. and Ph.B. courses.

Three lecture hours and one laboratory hour per week for two semesters.

Eight semester hours credit.

Texts: Lecture: *Textbook of Modern Physics, Weld and Palmer.*

Laboratory: *Mechanics, Sound, Heat, Gipprich.*

Assistant Professor SHEEHAN.

Physics 11. Light and Electricity. This course is obligatory for Seniors who completed *Physics 10.*

Two lecture hours and one laboratory hour every other week for two semesters.

Five semester hours credit.

(To be offered 1929-1930)

ASTRONOMY

Professor AHERN and ASSISTANT

Astornomy 1. Descriptive Astronomy. This course is elective for Seniors and Juniors in the A.B., B.S., and Ph.B. courses.

This course should be taken with *Geology 1*. It appears particularly to prospective teachers, and has an important cultural value. Special emphasis is placed on the enormous advance in astronomical knowledge in the last decade, which advance informs one of the outstanding triumphs in the history of scientific thought.

The course consists of a general survey of the various branches of Astronomy, treating of the celestial sphere; the solar system, including the sun and the planets with their satellites, the comets and meteors; the stars and nebulae.

Two hours per week for one semester.

Two semester hours credit.

Text: *Elements of Astronomy, Russel, Duggan and Stewart*, (Vols. I and II)

Professor AHERN.

GEOLOGY

Professor AHERN and ASSISTANT

Geology 1. Descriptive Geology. This course is elective for Seniors and Juniors in the A.B., B.S., and Ph.B. courses.

This course is a brief introductory course in which the principles of geological science are emphasized and some of the economic applications are indicated.

A short introductory study of minerology and lithology with laboratory study of mineral species and rock species; the examination of the geological processes at work modifying the earth's crust and the tabulation of their results; a discussion of the principles by which the geological record is interpreted and their application, especially, their bearing on the theory of evolution and the question of the antiquity of the human race. Laboratory illustrations.

Two hours per week for one semester.

Two semester hours credit.

Texts: *College Textbook of Geology, Chamberlain and Salisbury*, revised by Salisbury and McClintock.

Laboratory Manual of Geology, Field.

Professor AHERN.

Geology 2. Geological Foundations of Geography. Elective for students offering *Geology 1*.

This is a course in elementary physical geography or physiography, and is designed to supply prospective teachers and principals in high and elementary schools with that knowledge of land forms, their changes and their relations to human life, which is necessary for teaching geography successfully. The course is adequately illustrated, special emphasis being placed on the construction and interpretations of maps.

Two hours per week for one semester.

Two semester hours credit.

Professor AHERN.

FRENCH

Professors CARL and DRUMM

MESSRS. BOWEN, DONOGHUE and CATHCART

French 1. Elementary French. Elective for students who have not presented French for admission.

A thorough drill in the rudiments of the grammar, supplemented by the writing of simple English prose into French, involving the more usual syntactical constructions; drills in dictation and conversation; translations of selections from modern authors into idiomatic English.

Three hours per week for two semesters.

Six semester hours credit.

Texts: *French Grammar, Fraser and Squair.*

La Belle France, Monvert.

Sans Famille, Malot.

Histoire de France, Vast-Jallifer.

MESSRS. BOWEN and CATHCART.

French 2. Elementary French. Elective for students offering *French 1*, or students who have presented Elementary French (one year) for admission.

Reading of simple modern French prose in the forms of stories, plays, or historical or biographical sketches; a thorough review of the rudiments of the grammar, supplemented by the writing of English prose into French, involving the more unusual syntactical construc-

tions; dictation; conversation, including the discussion of current events.

Three hours per week for two semesters.

Six semester hours credit.

Texts: *French Grammar, Fraser and Squair.*

Abbé Constantin, Halevy.

Histoire de France, Vast-Jallifer.

MR. BOWEN.

French 3. Intermediate French. Elective for students offering *French 2*, and those students who have presented elementary French (two years) for admission.

Reading of modern and classical authors; a thorough review of the rudiments of the grammar, supplemented by the writing of English prose into French, involving all important syntactical constructions; dictation; criticisms, oral and written, of the literary merits of the authors read.

Three hours per week for two semesters.

Six semester hours credit.

Texts: *French Grammar, Fraser and Squair.*

Book of French Verse, Lucas.

French Composition and Syntax, Bovet.

Le Blé qué lève, Bazin.

Le Voyage de Monsieur Perrichon, Labiche.

Professor DRUMM and MESSRS. BOWEN and DONOGHUE.

French 4. Advanced French. Elective for students offering *French 3*, and students who have presented intermediate French for admission.

Reading of modern and classical prose writers and poets; study of the fundamental principles of each poetic school, of the salient features of each writer, and the technique of the novel; review of the grammar; literary criticism of the authors read; composition of French verse.

Three hours per week for two semesters.

Six semester hours credit.

Texts: *Grammar, Fraser and Squair.*

Athalie, Racine.

Book of French Verse, Lucas.

Cyrano de Bergerac, Rostand.

Professor CARL.

French 5. French Literature. Elective for students offering *French 1* and *2*, and students who have presented elementary French (two years) for admission.

The formation of the French Language, the Langue d'oc and the troubadours, the Langue d'oïl and the Trouveres (epics, etc.); early history (the Four Chroniclers); drama in the Middle Ages (influence of the Church, miracle-plays, mysteries, comedy); Villon and the balade.

The Renaissance: causes and progress; relations with Catholic and Protestant Churches; writers, especially Rabelais, Ronsard, Montaigne; the theatre: Jodelle and the three unities.

The Golden Age: reform of verse: Malherbe and later Boileau; the French Academy; influence of the Salons; Jansenism and Pascal; great preachers. Bossuet, Bourdaloue, Fenelon, etc.; Memoirs and Maximes; development of the novel; La Fontaine and the fable; the classic theatre: Corneille, Racine, Moliere, etc.

The Eighteenth Century: Montesquieu and his influence in America; Skepticism: Voltaire, Rousseau, etc.; revival of lyric poetry; revolutionary eloquence.

The Nineteenth Century: Reaction of Châteaubriand; Romanticism: Hugo, Lamartine, etc.; the drama; advance of literary criticism; history; popularity of the novel.

Most recent writers: great converts; modern tendencies; French as a world language.

Three hours per week for two semesters.

Six semester hours credit.

Texts: *Professor's Notes.*

(Not offered 1928-1929)

French 7. Scientific French. Required of Senior Pre-medical students, offering *French 2*. Optional for B.S. students.

A comprehensive course in *French 8* and *9* combined.

Six hours per week for one semester.

Six semester hours credit.

Texts: *Chemical French, Dolt.*

Selected Articles, Current Scientific Periodicals.

(Not offered in 1928-1929)

French 8. Scientific French. This course is required of Pre-medical students in the Junior year offering *French 2*. Optional for B.S. students.

The aim of this course is to introduce the student to the more

technical terminology of scientific French literature. Readings of selected articles from current scientific periodicals.

One hour per week throughout the year.

Two semester hours credit.

(Not offered 1928-1929)

French 9. Advanced Scientific French. Required of Pre-medical students in the Senior year offering *French 8*. Optional for B.S. students.

A continuation of *French 8*. Reading of Dolt; Chemical French, and selected articles from current scientific periodicals.

One hour per week throughout the year.

Two semester hours credit.

(Not offered 1928-1929)

SPANISH

Professor CARL and MR. RYAN

Spanish 1. Elementary Spanish. Elective for students who have not presented Spanish for admission.

A thorough drill in the rudiments of the grammar, supplemented by the writing of simple English prose into Spanish, involving the more usual syntactical constructions; drills in dictation and conversation; translations of selections from modern authors into idiomatic English.

Three hours per week for two semesters.

Six semester hours credit.

Texts: *Spanish Grammar, De Vitis.*

Spanish Reader, De Vitis.

Elementary Spanish Conversation and Composition, Espinosa.

(Not offered in 1928-1929)

Spanish 2. Elementary Spanish. Elective for students offering *Spanish 1*, and those students who have presented elementary Spanish (one year) for admission.

Reading of modern Spanish prose in the form of stories or historical sketches; a thorough review of the rudiments of the grammar, supplemented by the writing of English prose into Spanish, involv-

ing the more unusual syntactical constructions; dictation; discussion in Spanish of current topics.

Three hours per week for two semesters.

Six semester hours credit.

Texts: *Spanish Grammar, De Vitis.*

Cuentos, Romances y Cantares, Espinosa.

El Reino de los Incas del Perú, Garcilaso.

Don Quijote de La Mancha, Cervantes.

(Not offered 1928-1929)

Spanish 3. Intermediate Spanish. Elective for students offering *Spanish 2*, and students who have presented elementary Spanish (two years) for admission.

Reading of modern and classical authors; a thorough review of the grammar, supplemented by the writing of English prose into Spanish, involving the important syntactical constructions; dictation; literary criticisms of the authors read.

Three hours per week for two semesters.

Six semester hours credit.

Texts: *Spanish Grammar, De Vitis.*

Don Quijote de La Mancha, Cervantes.

José, Valdes.

MR. RYAN.

Spanish 4. Advanced Spanish. Elective for students offering *Spanish 3*, and students who have offered intermediate Spanish for admission.

Reading of modern and classical prose writers and poets; study of the fundamental principles of each poetic school, of the salient features of each writer, and of the technique of the novel; review of the grammar; composition of Spanish verse; literary criticisms of the authors read.

Three hours per week for two semesters.

Six semester hours credit.

Texts: *Spanish Grammar, De Vitis.*

José, Valdes.

El Capitán Veneno, Alarcón.

Un Drama Nuevo, House and Kaufman.

(Not offered 1928-1929)

ECONOMICS

Professor F. X. POWERS and Assistant Professor DONOGHUE

Economics 1. This course is elective for Juniors and Seniors in the A.B. and Ph.B. courses.

The nature of economic science and its relation to ethical and political science; production: factors of production, the law of diminishing returns, and division of labor, the advantage and disadvantage and remedies; exchange: money, trade, credit, and nature and functions of banks; consumption; the problem of distribution: wages, profits, rent, labor problem, socialistic solution, rights of property, and taxation.

Two hours per week for two semesters.

Four semester hours credit.

Text: *Political Economy, Burke.*

(Not offered 1928-1929)

Economics 2. Introduction to Accounting and to the Instruments and Records utilized in Economic Transactions. This course is elective for Juniors and Seniors in the A.B. and Ph.B. courses.

A study of the broad fundamental principles of accounting as a means of administrative control over the individual business enterprise following a consideration of its functions and terminology. A study of bookkeeping and financial statement procedure, practice in methods and technique. The theory of business methods and instruments, forms of business organization, simple corporate procedure showing the change from a partnership to a corporation. This course, emphasizing always the interpretation and use of information provided by the accounting method, is designed to develop intelligent scrutiny in the analyses and understanding of the "balance sheet," "profit and loss statement," and other financial reports.

One hour per week for two semesters.

Two semester hours credit.

Text: *Bookkeeping, Rosenkampff and Wallace.*

(Not offered 1928-1929)

Economics 3. Principles of Economics. Elective for Juniors in the A.B. and Ph.B. courses.

The nature of economic science and its relation to political science; production; factors of production, the laws of increasing and decreasing costs; exchange: money, trade, credit, the nature and functions of banks; consumption; the problem of distribution; wages,

profits, rents, taxation. The second semester of this course will be devoted almost exclusively to the application of economic principles by means of the case system.

Three hours per week for two semesters.

Six semester hours credit.

Texts: *Outlines of Economics, Ely.*

Case Book: Economic Principles, Vanderblue.

Professor POWERS.

Economics 4. Business Correspondence. Obligatory for Juniors electing *Economics 3.*

This course examines and outlines the theory of the application of standard English to Business Letters. The principles of modern business writing are explained, illustrated, and then applied to the various types of letters used in present-day commercial activities. The art of audience-impression by the written word is illustrated, and practical methods of handling typical business situations by mail explained.

Three hours per week for one-half semester.

One and one-half semester hours credit.

Text: *Advanced Business Correspondence, Hotchkiss and Kilduff.*

Assistant Professor DONOGHUE.

Economics 5. Financial Management and Investments. Obligatory for Juniors electing *Economics 3.*

This course treats a business undertaking from the point of view of the financial manager. A study of the types of investment securities, the procedure by which they are issued and sold, the influences which affect their prices, and the principles used in judging their fitness as instrumentalities of finance.

The relation of general business to the peculiarities of the business cycle, forms of organization considered in their legal and economic aspects, financial and operating ratios in management, methods and policies of securing permanent, temporary, and working capital, and other financial problems such as depreciation, reserves and management of income and surplus are considered in theory and in practice.

Three hours per week for two semesters.

Six semester hours credit.

Texts: *Elements of Business Finance, Bonneville.*

Financial Organization and Management, Gerstsenberg.

Assistant Professor DONOGHUE.

Economics 6. Accounting. Elective for Seniors offering *Economics 3*; required of Seniors in pre-business course.

This course is designed to acquaint the student with the fundamental principles that the accountant must use in his work. The subject matter includes theories of debit and credit, classification of accounts, underlying principles of the various accounting records, the business papers and documents that are used as the bases for original entry; the preparation of balance sheets and profit and loss statements; controlling accounts, handling sales and purchases; consignments; a consideration of inventories, depreciation and accruals.

During the second semester accounting as applied to the larger type of business enterprise, namely the partnership and corporation will be considered. Ample practice for students is provided.

Three hours per week for two semesters.

Six semester hours credit.

Text: *Accounting Theory and Practice*, Kestor.

Professor POWERS.

Economics 8. Marketing. Elective for Seniors in the A.B. and Ph.B. courses offering *Economics 3*; required of Seniors in the pre-business course.

This course will cover in some detail such topics as, analysis of the product, analysis of the market, the various marketing agencies, organized exchanges, grading, storage, co-operative marketing, general price policies, price maintenance, brands and trade marks; sales organization and administration; Purchasing: organization of department, standards, contract provisions, sources of supply, methods of perpetual inventory and its uses in purchasing.

Three hours per week for two semesters.

Six semester hours credit.

Texts: *Principles of Marketing*, Maynard, Weidler and Beckman.
Problems in Marketing, Copeland.

Professor POWERS.

EDUCATION

Professor O'GORMAN

Assistant Professors E. B. POWERS, MERRICK and SHEA

MESSRS. DRUMM, KEVILLE, SULLIVAN and BREEN

Education 1. History of Education. Elective for Juniors in the A.B. and Ph.B. courses.

The purpose of this course is to present a survey of the development of the educational theory and practice from ancient times

through medieval times. Its special aim is to meet the needs of the Catholic student to give him a knowledge of the History of Education and to gain that sympathy with Christian institutions and men in the Middle Ages which a common faith and a spiritual heritage demand.

Survey of the development of educational theory and practice in ancient, and medieval times; Ancient education; China, Japan; Egypt; India; Persia and the Semitic People; Greek and Roman education; early Christian education; Fathers of the Church; Medieval education and Scholasticism.

Three hours per week for one semester.

Three semester hours credit.

Text: *History of Education, Monroe.*

(Not offered 1928-1929)

Education 2. Educational Psychology. Elective for Juniors in the A.B. and Ph.B. courses. Prerequisite: *Education 1.*

The need of psychology; instincts; imitation; the doctrine of interest and effort; the intellectual aspect of the mind; perception, apperception, memory, imagination, judgment; place and function of the will in life; art of questioning; the answer; mental tests; objectives of systematic teaching; stimulating pupil to think, and laws of learning.

Three hours per week for one semester.

Three semester hours credit.

Text: *Professor's Notes.*

(Not offered 1928-1929)

Education 3. History of Education. Elective for Seniors in the A.B. and Ph.B. courses. Prerequisite: *Education 2.*

The purpose of this course is to present a survey of the development of the educational theory and practice from medieval times to the present time.

Renaissance and Reformation: in Italy, in other countries; the Catholic reaction; modern education: Realism, Realists and Theorists of the Seventeenth Century; religious organizations of the Seventeenth Century; the Eighteenth Century Nationalism and Education; the Nineteenth Century—the Psychologists, development of modern school systems in Germany, France, England, and the United States.

Three hours per week for one semester.

Three semester hours credit.

Text: *History of Education, Monroe.*

(Not offered 1928-1929)

Education 4. Practical Introduction to Teaching. Elective for Seniors in the A.B. and Ph.B. courses. Prerequisite: *Education 3.*

Principles of psychology in teaching; temperaments; educational psychology; educational principles and their applications; theory; class management including (1) a study of the teacher's task; (2) appreciation of individual pupil; (3) means of gaining interest and attention; (4) methods of presentation; (5) drill; (6) direction of study; (7) suggestions for meeting the needs of individual pupils; (8) supervised study; (9) plans for the organization of class work; (10) hints for securing economy and efficiency in class work; (11) faults in teaching and remedies for same; (12) examinations, credits, and promotions. Demonstrations in teaching are required and points of criticism offered. The aim is to make the work as practical as possible.

Three hours per week for one semester.

Three semester hours credit.

Text: *Professor's Notes.*

(Not offered 1928-1929)

Education 5. History of Education. Elective for Juniors in the A.B. and Ph.B. courses.

The purpose of this course is to promote a clearer understanding of modern tendencies in education by a careful study of the problems, practices, and ideals of the past.

Scope: Educational agencies in ancient times, in the "Classical Age," in the Middle Ages and during the Renaissance; the growth of national systems of popular education; recent attempts to adjust curricula to the growing complexities of civilization with special emphasis on the present-day trend of the American school system.

Six hours per week for one semester.

Six semester hours credit.

Texts: *The History of Education, Cubberly.*

The History of Education, McCormick.

(Not offered 1928-1929)

Education 6. The Learning Process. Elective for Juniors in the A.B. and Ph.B. courses.

The purpose of this course is to acquire a working knowledge of those fundamental elements of psychology that relate to the educative process.

Scope: A systematic study of the educable being, the laws that govern his physical and mental development, his relation to the spirit-

ual, social, economic and cultural aspects of life and the significance of the whole in respect to classroom procedure.

Six hours per week for one semester.

Six semester hours credit.

Text: *Psychology for Students of Education, Gates.*

(Not offered 1928-1929)

Education 7. Directing the Learning Process. Elective for Seniors in the A.B. and Ph.B. courses.

The purpose of this course is to give the student a clear concept of the principles that govern the art of classroom management so that he may better direct and stimulate pupil activities.

Scope: A brief review of the salient characteristics of the learning process; consideration of general and specific objectives; direction of habit formation and right conduct; aids to the acquisition and use of knowledge; recognition and treatment of individual differences; provision for extra-curricular activities and the measurement of achievement; group instruction in special methods, supplemented by thirty hours of outside observation and practice teaching.

Six hours per week for one semester.

Six semester hours credit.

Texts: *Directing Learning in the High School, Monroe.*

An Introduction to High School Teaching, Colvin.

(Not offered 1928-1929)

Education 8. Principles of Education. Elective for Seniors in the A.B. and Ph.B. courses.

The purpose of this course is to give to the prospective teacher a comprehensive philosophy of education with which to evaluate objectives and methods.

Scope: A consideration of education in its broad and restricted senses, its possibility and necessity, the need of formal education, the psychological foundations that tend to modify its administration, the relation that education bears to the home, to health, to civic life, to vocation, recreation and religion; the function of the school as an agency of education and the conduct of instruction.

Six hours per week for one semester.

Six semester hours credit.

Texts: *Principles of Education, Chapman and Counts.*

Philosophy of Education, Shields.

(Not offered 1928-1929)

Education 9. The History of Education. Elective for Juniors in the A.B. and Ph.B. courses.

The purpose of this course is to promote a clearer understanding of modern tendencies in education by a careful study of the problems, practices, and ideals of the past.

Scope: Educational agencies in ancient times, in the Classical Age, in the Middle Ages, and during the Renaissance; the growth of national systems of popular education; recent attempts to adjust curricula to the growing complexities of civilization with special emphasis on the present-day trend of the American school system.

Two hours per week for two semesters.

Four semester hours credit.

Texts: *The History of Education, Cubberly.*

History of Education, McCormick.

Assistant Professor POWERS.

Education 10. Ethics of the Teaching Profession. Elective for Juniors in the A.B. and Ph.B. courses.

The purpose of this course is to inculcate worthy ideals and establish norms of conduct in teacher-relationships.

Scope: Survey of the teacher's status in formal systems of education; consideration of legal and moral rights and responsibilities; ethical attitudes towards school officials, parents and pupils; causes of failure; professional advancement; and the use of leisure time.

Two hours per week for two semesters.

Four semester hours credit.

Assistant Professor POWERS.

Education 11. English for Teachers. Elective for Juniors in the A.B. and Ph.B. courses.

The purpose of the course is to cultivate habits of refined speech and to foster reverence for literary ideals.

Scope: Practice in oral and written expression; creative and appreciatory work in prose and poetry; attention to detail in matters affecting personality, skill, charm and forcefulness in the development of appropriate language habits.

Two hours per week for two semesters.

Four semester hours credit.

MR. DRUMM.

Education 12. Educational Psychology. Elective for Seniors in the A.B. and Ph.B. courses.

The purpose of this course is to acquire a working knowledge of

those fundamental elements of psychology that relate to the educative process.

Scope: The course embraces a systematic study of the educable being, his native and acquired tendencies; economy in learning; the process of acquiring ideas and ideals; general intelligence and its measurements; significance of the whole in respect to classroom procedure.

Two hours per week for two semesters.

Four semester hours credit.

Text: *Psychology for Students of Education, Gates.*

Professor O'GORMAN.

Education 13. General Methods of Teaching. Elective for Seniors in the A.B. and Ph.B. courses.

The purpose of this course is to give the student a clear concept of the principles that govern teaching procedure so that he may better direct and stimulate learning activities.

Scope: A brief review of the salient characteristics of the learning process; consideration of general and specific objectives; direction of habit formation and right conduct; aids to the acquisition and use of knowledge; recognition and treatment of individual differences; measurement of achievement; analysis and interpretation of results.

Two hours per week for two semesters.

Four semester hours credit.

Texts: *Directing Learning in the High Schools, Monroe.*

An Introduction to High School Teaching, Colvin.

Professor O'GORMAN.

Education 14. Principles of Education. Elective for Seniors in the A.B. and Ph.B. courses.

The purpose of this course is to give to the prospective teacher a comprehensive philosophy of education with which to evaluate objectives and methods.

Scope: A consideration of education in its broad and restricted senses, its possibility and necessity; the need of formal education, the psychological foundations that tend to modify its administration; the relation that education bears to the home, to health, to civic life, to vocation, recreation and religion; the function of the school as an agency of education; and the conduct of instruction.

Two hours per week for two semesters.

Four semester hours credit.

Texts: *Principles of Education, Chapman and Counts.*

Philosophy of Education, Shields.

Professor O'GORMAN.

Education 15. Special Methods in English. Elective for Seniors and Juniors taking Education.

The purpose of this course is to aid those who intend to specialize in the teaching of English.

Scope: A detailed study of the aim and content of an approved course of English in secondary schools; methods of teaching oral and written expression; principles of appreciation, memory and review as they relate to English literature; practice in working out lesson plans for specific assignments in English.

Two hours per week for one semester.

Two semester hours credit.

Text: *Professor's Notes.*

MR. KEVILLE.

Education 16. Special Methods in French. Elective for Seniors and Juniors taking Education.

The purpose of this course is to acquaint those who are preparing to teach French with the aim, scope and technique of French courses offered in approved high schools.

Scope: A comparative study of the direct, indirect and combined methods of teaching French; review of standard literary works used in high school; practice in creating appropriate classroom atmosphere by the introduction of historical and geographical projects growing out of the work under consideration; emphasis on the acquisition of an easy conversational manner through the constant use of French in all class activities.

Two hours per week for one semester.

Two semester hours credit.

Text: *Professor's Notes.*

(Not offered 1928-1929)

Education 17. Special Methods in Mathematics. Elective for Seniors and Juniors taking Education.

The purpose of this course is to introduce the student to some of the problems and practices current among teachers of mathematics in Senior and Junior High Schools.

Scope: The course includes a brief analysis of the objectives and content material in Algebra, Geometry and Trigonometry based on the report of the National Committee on Mathematical Requirements. Considerable time is devoted to reports and discussions of such questions as "minimum essentials," "enrichment," "differentiated assignments," "individualized instruction," and "diagnostic

testing." Opportunity is provided for reviewing much of the subject matter and for observing actual teaching conditions.

Two hours per week for two semesters.

Four semester hours credit.

Assistant Professors POWERS and MERRICK.

Education 18. Special Methods in History. Elective for Seniors and Juniors taking Education.

The purpose of this course is to aid those who intend to specialize in the teaching of History.

Scope: A brief survey of the field of History; a compilation of data relating to text, laboratory and source material; theory and practice in planning appropriate learning exercises; a study of the technique of the quiz, the topical recitation, the project and problem as they apply to the teaching of History; the use and abuse of standard tests and measurements.

Two hours per week for one semester.

Two semester hours credit.

Text: *The Teaching of History in Senior and Junior High School, Tryon.*

Professor O'GORMAN and MR. BREEN.

Education 19. Special Methods in Physical Education. Elective for Seniors and Juniors taking Education.

The aim of this course is to develop skill in prospective teacher-athletic coaches and physical training directors.

Scope: Demonstration and practice in handling groups in the gymnasium; techniques of directing floor drill, apparatus work and indoor sports; correct evaluation of the principles involved in recreative exercises, muscle control and sportsmanship through oral and written discussions.

Two hours per week for one semester.

Two semester hours credit.

Physical Director SULLIVAN.

Education 20. Practice Teaching and Observation.

Seniors in the department of education are required to spend from thirty to sixty hours in the classroom of an approved secondary school. Evidence of a satisfactory professional attitude and successful class management must be attested to by the principal of the co-operating school before credit is allowed.

One semester hour credit.

(Not offered 1928-1929)

Education 21. Special Methods in Latin. Elective for Seniors and Juniors taking Education.

The purpose of this course is to aid those who intend to specialize in the teaching of Latin.

Scope: A brief review of the mechanics of Latin grammar, application of principles of syntax in the composition of themes; practice in reading the better known Latin writers.

Two hours per week for one semester.

Two semester hours credit.

Assistant Professor SHEA.

JOURNALISM

MR. KENNEDY

Journalism 1. News Technique. This course is elective for all Juniors in the A.B. and Ph.B. courses.

Newspaper reporting and correspondence; news, news values, and news sources; news associations; the gathering and writing of news; the similar types of news stories: their structure, style, and technique.

Three hours per week for one semester.

Three semester hours credit.

Text: *Professor's Notes.*

(Not offered 1928-1929)

Journalism 2. Newspaper Administration. This course is elective for all Juniors in the A.B. and Ph.B. courses who offer *Journalism 1.*

A study of the mechanical and business departments of the daily paper, of the organization of the news and editorial rooms, of the history of the present methods of printing and illustrating.

Three hours per week for one-half semester.

One and one-half semester hours credit.

Text: *Professor's Notes.*

(Not offered 1928-1929)

Journalism 3. Newspaper History. This course is elective for all Juniors in the A.B. and Ph.B. courses who offer as credit *Journalism 2.*

The origin and growth of Journalism in America; great newspaper names and eras; great examples of journalistic achievements; great modern dailies and their influence and policies.

Three hours per week for one-half semester.

One and one-half semester hours credit.

Text: *Professor's Notes.*

(Not offered 1928-1929)

Journalism 4. Newspaper Editing and Feature Writing. This course is elective for Seniors in the A.B. and Ph.B. courses who offer as credit *Journalism 3*.

Newspaper Editing: preparation and editing of copy; headline writing; newspaper makeup; general desk work.

Editorial Writing: a study of the editorial page; editorial interpretation and comment; the origin and development of the editorial; editorial treatment of current topics; the relation of the editorial to literary, musical, and dramatic criticisms; the various types of editorials, their structure and style.

Feature Writing: a study of the market for special articles; the difference between newspaper and magazine articles; subjects for special articles; the types of special articles; the psychology of interest; methods of interesting different classes of readers.

Three hours per week for one semester.

Three semester hours credit.

Text: *Professor's Notes*.

(Not offered 1928-1929)

Journalism 5. Newspaper Laws and Ethics. This course is elective for Seniors in the A.B. and Ph.B. courses who offer as credit *Journalism 4*.

The origin and development of the freedom of the press; history, principles and provisions of the laws of libel and copyright; the rights and duties of the press; its morals, standards and part in the community, state and national life.

Three hours per week for one semester.

Three semester hours credit.

Text: *Professor's Notes*.

(Not offered 1928-1929)

Journalism 6. This course is elective for Juniors in the A.B. and Ph.B. courses.

History of American Journalism: beginnings in Colonies; Colonial Period; Period of the Early Republic; first dailies and early party organs.

News Stories: Lead, its development; Head and Body; the Special Newspaper, the Industrial, Trade, Scientific and Technical.

Current events; Advertising; survey of the Modern Newspaper, its management, its organization; Headlines; Printing, composing and stereotyping departments.

Six hours per week for two semesters.

Twelve semester hours credit.

Texts: *History of American Journalism, Lee*.

Newspaper Makeup and Headlines, Rader.
Newspaper Writing and Editing, Bleyer.
Types of News Writing, Bleyer.
Writing of News, Ross.
Special Feature Articles, Bleyer.

(Not offered 1928-1929)

Journalism 7. This course is elective for Seniors in the A.B. and Ph.B. courses.

Editorials, News stories; Makeup of a page, the perfect page; Typography; composing room problems; current events; publicity, principles and their application, feature story, and writing of pamphlet; advertising copy; newspaper morals.

Six hours per week for two semesters.

Twelve semester hours credit.

Texts: *Writing of News, Ross.*

Special Feature Articles, Bleyer.

Editing the Day's News, Bastian.

Principles of Publicity, Quiett and Casey.

Advertising, Its Problems and Methods, Cover.

(Not offered 1928-1929)

Journalism 9. This course is elective for Juniors in the A.B. and Ph.B. courses.

History of American Journalism; News stories; Current events; Headlines.

Two hours per week for two semesters.

Four semester hours credit.

Texts: *History of American Journalism, Lee.*

Newspaper Makeup and Headlines, Radder.

Newspaper Writing and Editing, Bleyer.

MR. KENNEDY.

Journalism 10. This course is elective for Seniors in the A.B. and Ph.B. courses.

Editorials; Feature stories; Makeup of a page; Publicity; Advertising.

Two hours per week for two semesters.

Four semester hours credit.

Texts: *Writing of News, Ross.*

Special Feature Articles, Bleyer.

Principles of Publicity, Quiett and Casey.

Advertising, Its Problems and Methods, Cover.

Newspaper Makeup and Headlines, Radder.

MR. KENNEDY.

JURISPRUDENCE

Professor SAGE

Jurisprudence 1. This course is elective for Juniors and Seniors in the A.B. and Ph.B. courses. Required of pre-legal students.

This course comprises the study of law in general; the right of private property; estates in real property; real estates in real property; personal estates in personal property; number and connection of tenants in real property; title to estates in real property; estates in personal property; title by gift; and title by contract.

Three hours per week for one semester.

Three semester hours credit.

Texts: *Professor's Notes.*

Commercial Law Cases, Perrin and Babb, (Vol. I).

(Not offered 1928-1929)

Jurisprudence 2. This course is elective for Juniors and Seniors in the A.B. and Ph.B. courses. Required of pre-legal students. Prerequisite: *Jurisprudence 1.*

This course comprises the study of private wrongs; proceedings in an action at law; evidence; equitable remedies; crimes; degrees of crimes—treason, felony, misdemeanors; relation of criminal actor to criminal act; criminal procedure; nature and functions of a State; subjects and their relations to the State.

Three hours per week for one semester.

Three semester hours credit.

Texts: *Professor's Notes.*

Commercial Law Cases, Perrin and Babb, (Vol. I).

(Not offered 1928-1929)

Jurisprudence 3. History of Law. This course is elective for students offering as credit *Jurisprudence 1* and *2*. Required of pre-legal students.

Three hours per week for two semesters.

Six semester hours credit.

Text: *Professor's Notes.*

(Not offered 1928-1929)

Jurisprudence 4. This course is elective for Juniors in the A.B. and Ph.B. courses; required of pre-legal students.

English: the use of simple, clear and concise English; the preparation of briefs of simple cases with the view to the presentation of the arguments of the brief in proper form and language.

Study of Property, its nature, Personal and Real, the fundamental

notions of property as considered in Blackstone's Commentaries and the consideration of selected cases illustrating the basic rules concerning Personal and Real Property.

Study of Contracts: a brief history of the growth and development of contract together with a complete treatment on the subject, following the outline of Anson on Contracts; analysis and discussion of important cases.

Study of Torts: nature of Tort and its relation to other branches of Jurisprudence; considerations of cases involving assault, battery, false imprisonment, trespass to property, slander and libel, malicious prosecution, negligence, justifications and defences.

Six hours per week for two semesters.

Twelve semester hours credit.

Texts: *Law of Contract, Anson.*

Property, Sullivan and Tiffany.

Torts, Cooley.

Professor SAGE.

(May not be offered in 1929-1930.)

Jurisprudence 5. This course is elective for Seniors in the A.B. and Ph.B. courses who offer *Jurisprudence 4*; required of pre-legal students.

Study of Corporations: history of the nature and growth of corporations; organization; De Facto and De Jure corporations; rights and liabilities of stockholders; officers, creditors, promotion and dissolution of corporations.

Study of Negotiable Instruments: brief history of Law Merchant, consideration of the Negotiable Instruments Law, its relation to the English Bills of Exchange Act, classes and forms of negotiable instruments, negotiability, assignability, protest, discharge, payment, cancellation and alteration.

The Constitution of the United States; a brief history of the origin and development of the Constitution; treatment of the Constitution itself, in the light of cases illustrative of the fundamental principles contained; amendments.

Six hours per week for two semesters.

Twelve semester hours credit.

Texts: *Corporations, Elliott and Wormser.*

Negotiable Instruments, Brannon.

The Constitution of the United States, Wambaugh.

Professor SAGE.

(May not be offered in 1929-1930.)

Jurisprudence 6. History of English Law. This course is elective for Juniors in the A.B. and Ph.B. courses; required of students in the pre-legal course.

The Old English Law; the Anglo Saxon; growth and development of the Common Law during the period from 1066-1272; the influence of the Roman Law upon the Common Law through the revival in the eleventh and twelfth centuries; Feudalism; the law of land; the law of chattels and growth of procedure.

1272-1660. Abolition of feudal jurisdiction; new interests in lands; rights and methods of alienation; law of personal and real property, contract and tort, criminal law and procedure; civil procedure in the Middle Ages; growth of Chancery jurisdiction.

1661 to present times. Modern authorities; reform of equity; changes in land law; new forms of personal property; contract and tort in modern law; reform in criminal law and modern civil procedure.

One hour per week for two semesters.

Two semester hours credit.

Text: *History of English Law, Jenks.*

(Not offered 1928-1929)

SOCIOLOGY

Assistant Professor DONOGHUE

Sociology 1. Introductory and Theoretical Sociology. Elective for Juniors and Seniors in the A.B. and Ph.B. courses.

Meaning and scope of Sociology as a science; the postulates, material and formal objects of Sociology; a study of the structure and function of society and the elements of the social organism—heredity and environment—in their relation to each other and to social and civic welfare; an appreciation of the processes, institutions and forces—the human species, sexes, and individual personality, family, state, laws, religion, education, co-operation—as factors in human activities and social advancement which may be directed to wholesome development; fundamental, ethical, religious, political and economic principles underlying possible and desirable social reforms.

Three hours per week for one semester, collateral readings, historical surveys.

Three semester hours credit.

Text: *An Introduction to Sociology, Beach.*

(Not offered 1928-1929)

Sociology 2. Social Ethics. Elective for Juniors and Seniors in the A.B. and Ph.B. courses. Prerequisite: *Sociology 1*.

This course treats of natural and positive laws; origin of authority; utilitarian, hedonistic, socialistic, liberal, and Christian views on authority and property rights; justice and charity; distribution of wealth and ownership; crime and punishment; limits of municipal and state activities; laws, local, national and international

Three hours per week for one-half semester, collateral readings, personal investigations and surveys.

One and one-half semester hours credit.

Text: *Social Problems and Agencies, Spaulding.*

(Not offered 1928-1929)

Sociology 3. Social Pathology. Elective for Juniors and Seniors in the A.B. and Ph.B. courses. Prerequisite: *Sociology 2*.

This course treats constructively of present day social problems and agencies; family disorganization, divorce, dependency and delinquency; economic disorganization, wages, standards of living; irregular employment, child labor, fatigue and industrial accidents; health problems in relation to personal demoralization and group disorganization, housing, mental and nervous troubles, tuberculosis, inebriates and drug addicts.

Three hours per week for one-half semester, collateral readings; personal investigations and surveys.

One and one-half semester hours credit.

Text: *Social Problems and Agencies, Spaulding.*

(Not offered 1928-1929)

Sociology 4. Theoretical Sociology, Social Ethics and Social Pathology. Elective for Juniors and Seniors in the A.B. and Ph.B. courses.

Two hours per week for two semesters.

Four semester hours credit.

Texts: *An Introduction to Sociology, Beach.*

Social Problems and Agencies, Spaulding.

Assistant Professor DONOGHUE

FINE ARTS

Arts 1. History of Fine Arts. Elective for Juniors and Seniors in the A.B. and Ph.B. courses.

Discussion of the following periods: Prehistoric, Egyptian, Babylonian, Assyrian, Persian, Greek, Roman, Early Christian West,

Christian in the East (Byzantine), Mohammedan, Persian, Romanesque, Gothic, Renaissance in Italy, Renaissance in Northern, Western and Eastern Europe, Modern Art.

Two hours per week for two semesters.

Four semester hours credit.

Text: *Professor's Notes*.

(Not offered 1928-1929)

Architecture 1. History of Architecture. Elective for Juniors and Seniors in the A.B. and Ph.B. courses.

Two hours per week for two semesters.

Four semester hours credit.

Text: *Professor's Notes*.

(Not offered 1928-1929)

Music 1. The Appreciation of Music. This course is elective for all students in the A.B. and Ph.B. courses.

This course, although not technical, is designed for students who wish to acquire an intelligent understanding and enjoyment of good music, and who desire intimate knowledge of the masterpieces of symphonic and musico-dramatic composition.

Two hours per week for two semesters.

Four semester hours credit.

Text: *Appreciation of Music, Marshall*.

Professor MARSHALL.

Music 2. Harmony. This course is elective for all students in the A.B. and Ph.B. courses.

Two hours per week for two semesters.

Four semester hours credit.

Text: *Professor's Notes*.

Professor MARSHALL.

Music 3. Harmony. This course is elective for all students in the A.B. and Ph.B. courses who have completed *Music 2*.

An advanced course in Harmony.

Two hours per week for two semesters.

Four semester hours credit.

Text: *Professor's Notes*.

(Not offered 1928-1929)

PHOTOGRAPHY

Photography 1. This course is elective for all students in the A.B., Ph.B. and B.S. courses.

The lectures are supplemented by demonstrations before the class. Opportunities are afforded the students to do practical work in the taking, developing, printing, mounting, and enlarging of photographs, and in the making and coloring of lantern slides.

Outline: brief outline of the history of Photography; the principles of Chemistry and Physics underlying Photography; types of lenses; types of cameras; exposure; developers; the dark room and the furniture; the art of development, the negative; the positive, printing the picture; types of photographic papers; retouching, mounting, and coloring photographs; enlargements; the making and coloring of lantern slides; motion picture photography; aeroplane and airship photography; color photography; color printing.

The college has a completely equipped dark-room in which the practical instruction will be given in all the processes indicated in the above outline.

One hour per week for twenty-five weeks.

No college credit given.

Professor AHERN.

RELIGION

Professors STROHAVER, SULLIVAN, AHERN, DWYER, MICHAUD and MURPHY

Assistant Professors GILLERAN, GRAHAM, MORAN, O'CONNELL, O'KEEFE, REED, SHEA and WELCH.

Religion 1. Creation and Redemption. This course is obligatory for all Freshmen in the A.B., Ph.B., and B.S. courses.

The Creation, spiritual and material world; different orders of creation in relation to one another; the Redemption.

Two hours per week for one semester.

Text: *Handbook of Christian Religion, Wilmers, S.J.*

Professors AHERN, MICHAUD, MURPHY and Assistant Professor MORAN.

Religion 2. Grace and the Sacraments. This course is obligatory for all Freshmen in the A.B., Ph.B., and B.S. courses. Prerequisite: Religion 1.

Grace; the Sacraments, Baptism, Confirmation, Holy Eucharist, Penance.

Two hours per week for one semester.

Text: *Handbook of Christian Religion, Wilmers, S.J.*

Professors AHERN, MICHAUD, MURPHY and Assistant Professor MORAN.

Religion 3. Sacraments and Morality. This course is obligatory for all Sophomores in the A.B., Ph.B., and B.S. courses. Prerequisite: *Religion 2.*

The Sacraments of Penance, Extreme Unction, Holy Orders, and Matrimony; The Church as a means of salvation; the Last Things; Christian Morality.

Two hours per week for one semester.

Text: *Handbook of Christian Religion, Wilmers, S.J.*

Professors DWYER, SULLIVAN and Assistant Professors GILLERAN, O'KEEFE and REED.

Religion 4. Duties and Perfection. This course is obligatory for all Sophomores in the A.B., Ph.B., and B.S. courses. Prerequisite: *Religion 3.*

Christian duties towards God, ourselves, and our neighbors; Christian Perfection.

Two hours per week for one semester.

Text: *Handbook of Christian Religion, Wilmers, S.J.*

Professors DWYER, SULLIVAN and Assistant Professors GILLERAN, O'KEEFE and REED.

Religion 5. Fundamental Apologetics. This course is obligatory for all Juniors in the A.B., Ph.B., and B.S. courses. Prerequisite: *Religion 4.*

Christianity, a revealed religion; revelation in general; Pre-Christian revelation; Christian revelation.

Two hours per week for one semester.

Text: *Handbook of Christian Religion, Wilmers, S.J.*

Assistant Professors GRAHAM, O'CONNELL, SHEA and WELCH.

Religion 6. The Church and God. This course is obligatory for all Juniors in the A.B., Ph.B., and B.S. courses. Prerequisite: *Religion 5.*

The Church, its institution, end, constitution; Marks of the Church; teaching office of the Church; Holy Scripture; Tradition; rule of Faith.

The existence of God; the nature of God; Attributes of God; the Holy Trinity.

Two hours per week for one semester.

Text: *Handbook of Christian Religion, Wilmers, S.J.*

Assistant Professors GRAHAM, O'CONNELL, SHEA and WELCH.

Religion 7. Review Course. This course is obligatory for all Seniors in the A.B., Ph.B., and B.S. courses. Prerequisite: *Religion 6.*

This course is devoted to a general review of courses 1, 2, 3, 4, 5 and 6.

Two hours per week for two semesters.

Text: *Handbook of Christian Religion, Wilmers, S.J.*

Professor STROHAVER.

FEES AND EXPENSES

TUITION—FEES

The general tuition fee, which includes Library, Athletic, Eclectic Lecture, Registration and all other incidental fees, for every student in regular standing in Holy Cross College for the academic year, the period between the opening of the College Year and Commencement, is *two hundred and eighty dollars*; but if a student in the College takes work in excess of the amount required of members of his class, he is charged an additional fee of *thirty-five dollars* for each additional full-year course or *twenty dollars* for each additional half-year course so taken.

A student who enters the College after the beginning of the academic year is charged from the beginning of the tuition period in which he enters. A student who leaves the College during the academic year is charged to the end of the tuition period in which he leaves, provided that before that time he gives written notice to the Dean of his withdrawal; otherwise he will be charged to the end of the academic year or to the end of the tuition period in which such notice is given. The first tuition period begins at the beginning of the academic year and ends November 13; the second tuition period begins November 14 and ends February 3; the third tuition period begins February 4 and ends March 27; the fourth tuition period begins March 28 and ends at Commencement.

Deductions from tuition fees paid for additional courses may be claimed by students who have properly notified the Dean of their withdrawal from such courses. Deductions are made in accordance with the tuition period in which notification is received.

A *fee of five dollars* is charged for each examination for the removal of a condition; a *fee of three dollars* is charged for each examination for the removal of an absent mark.

Every candidate for a degree is charged a graduation fee of *ten dollars*, and he is liable for payment of this fee unless he fails in his Senior examinations or gives written notice to the Dean before May 1 of his graduating year that he withdraws his candidacy.

FEEES FOR SINGLE COURSES

Special Students. Students not candidates for degrees, instead of paying the annual tuition fee, may pay fees for the courses which they take. No deductions for absence or withdrawal is made from the fees for single courses. Each Special Student who attends a course for only a part of the year must pay the whole fee for this course. However, a student who is liable for the annual tuition fee is entitled to the same remission as a student in regular standing.

Special students, not liable for the annual tuition fee, if they wish all the academic and athletic privileges of students in regular standing, are required to pay, *in addition to single course fees*, an annual fee of *eighty dollars* (\$80.00).

The tuition fees for single courses are as follows:

For any course not a laboratory course, *thirty-five dollars* for a full-year course; *twenty dollars* for a half-year course.

For a laboratory course, *twenty-five dollars* for a full-year course; *fifteen dollars* for a half-year course.

For any course including both lectures and laboratory, *sixty dollars* for a full-year course; *thirty-five dollars* for a half year course.

FEEES FOR LATE REGISTRATION

A student who fails to register at the appointed time, unless granted late registration permission by the Dean, is required to pay the Treasurer a fee of *five dollars* before he *will be allowed to begin college work*. A student who is allowed to change an elective course on a petition filed later than two weeks after the appointed date for registration is required to pay the Treasurer a fee of *five dollars*.

LABORATORY AND OTHER FEES

Each student taking a laboratory course is liable for breakage, damage and loss of apparatus. Students in regular standing and special students liable for the annual tuition fee of two hundred and eighty dollars are charged, in addition, fees for each laboratory course which they take. Students in regular standing in both Junior and Senior classes, electing for degree credits courses other than laboratory courses, are obliged to pay fees amounting to *ten dollars* for these courses.

The laboratory fees are as follows:

Physics 1, 3, \$20.00 each; Physics 2, 4, 5, 6, 7, \$15.00 each.

Biology 1, \$30.00; Biology 3, \$25.00; Biology 4, 5, 6, 7, \$15.00 each; Biology 8, \$10.00.

Chemistry 1, \$15.00; Chemistry 2, 6, 13, 14, \$25.00 each; Chemistry 5, 7, \$40.00 each. (A deposit of \$15.00 against breakage is required for each course in Chemistry.)

BOARD, ROOM AND OTHER EXPENSES

The necessary expense of residence at the College, *including board, private room (furnished), service and attendants*, is \$445.00; the necessary expense of residence at the college, *including board, dormitory space, service and attendants* is \$370.00. In addition to these charges, for which every one must plan, a student's expenses will include charges which vary with the means and habits of the individual, for example, books and stationery, clothing, membership in societies and the expenses of vacations.

Deductions from money paid for board and room may be claimed by students who have properly notified the Dean of their withdrawal from the College. Deductions are made in accordance with the tuition period in which such notification is received.

PAYMENT OF COLLEGE BILLS

The first bill will be issued on September 3 and payable on the day of registration. It will include one-half of the tuition, board and room.

The second bill will be issued on November 2 and payable before December 3. It will include the fees for Chemistry, Physics and Biology and all other charges incurred to November 1.

The third bill will be issued on January 15 and payable before February 5. It will include one-half of the tuition, board and room, graduation fee (for Seniors only) and all other miscellaneous charges to January 14.

The final bill will be issued on March 15 and payable before April 1 and will include all miscellaneous charges incurred to March 14.

Bills for all other miscellaneous charges from March 14 to Commencement will be issued at the time the indebtedness is incurred.

Deferred payment of bills can be sanctioned only by the President of Holy Cross College. For such concession a delayed payment fee of two dollars per month (\$2.00) will be added to the accounts unpaid.

SCHOLARSHIPS

While other institutions number their scholarships by hundreds, and the value of them may be estimated at millions of dollars, Holy Cross is able to offer very few. These she names with grateful benedictions on the heads of those who have bestowed them. They are:

The Governor Ames Scholarship.—(Income on \$1,000). Founded in 1887 by ex-Governor Oliver Ames.

The Rev. Charles E. Burke Scholarship.—(Income on \$3,000). Founded in 1895. Annual appointment to be made from residents of St. Francis Parish, North Adams, Mass.

The Thomas Callaghan Scholarship.—(Income on \$2,000). Founded in 1914 by the late Thomas Callaghan of Leicester, Mass., limited to residents of Worcester County, "preference to be given to those preparing for the priesthood."

The Connecticut Valley Alumni Scholarship.—(Income on \$1,725). Founded in 1912 by the Alumni of Connecticut Valley.

The Rt. Rev. Monsignor Daniel F. Curtin Scholarship.—(Income on \$10,000). Founded in 1921 by the Rt. Rev. Monsignor Daniel F. Curtin, Glens Falls, N. Y., to be appointed by the pastor of St. Mary's Church, Glens Falls, N. Y.

The "In Memory of David Goggin" Scholarship.—(Income on \$1,000). Founded in 1925 by Mrs. Catherine M. Goggin, in memory of David Goggin. Preference to be given relative.

The Monsignor Griffin Scholarship.—(Income on \$1,000). Founded in 1895, limited to residents of St. John's Parish, Worcester, Mass.

The John H. Halloran Scholarship I.—(Income on \$8,000). Founded in 1909 by Mr. John H. Halloran of New York, as a memorial of his brother, the late William J. Halloran of Worcester, competition open to the country.

The John H. Halloran Scholarship II.—(Income on \$8,000). Founded in 1921 by Mr. John H. Halloran of New York, as a memorial of his brother, the late William J. Halloran of Worcester. Selection to be made from the students of the public and parochial schools of Northampton, Mass., by means of competitive examination.

The Rev. Jeremiah J. Healy Scholarship I.—(Income on \$1,500). Founded in 1912 by the Rev. Jeremiah J. Healy, of Gloucester, Mass., for a candidate for the priesthood worthy of financial aid.

The Rev. Jeremiah J. Healy Scholarship II.—(Income on \$1,500). Same as the Rev. Jeremiah J. Healy Scholarship I.

The Richard Healy Scholarship.—(Income on \$8,000). Founded in 1908 by Mr. Richard Healy of Worcester, open to competition for residents of Worcester County, regardless of creed.

The Mr. and Mrs. Richard Healy Scholarship.—(Income on \$12,000). Founded in 1916 by Mr. and Mrs. Richard Healy of Worcester, for benefit of direct relative of donors.

The Rev. Frederick W. Heaney, S.J., Scholarship.—(Income on \$2,500). Founded in 1920 by Miss Lillian Heaney, in memory of her deceased brother, the Rev. Frederick W. Heaney, S.J.

The "In Memoriam" Scholarship.—(Income on \$8,000). Founded in 1915 by an alumnus of the College for a deserving student.

The Rev. Michael H. Kittredge Scholarship.—(Income on \$5,000). Founded in 1917 by Rev. Michael H. Kittredge, '75.

The John J. Leonard Scholarship of the M. C. O. F.—(Income on \$6,000). Founded in 1926 and restricted to members, or sons of members of the M. C. O. F., selection to be made by competitive examination.

The Henry Vincent McCabe Scholarship.—(Income on \$5,000). Founded in 1916 by the late Mary McCabe of Providence, R. I., for a deserving student.

The Rev. David F. McGrath Scholarship I.—(\$6,000). Founded in 1907 by the Rev. David F. McGrath, '70, providing board, tuition and room for the entire course, beneficiary to be selected by competitive examination. Restricted to graduates of St. Mary's Parish School, Milford, Mass., if there be more than one eligible candidate. If but one such, graduates of Milford Public High School may be admitted to competition; if but one candidate from both schools combined, anyone otherwise eligible in the State to be admitted to competition.

The Rev. David F. McGrath Scholarship II.—(\$6,000). Founded in 1909 by the Rev. David F. McGrath, '70, providing board, tuition and room for the entire course, conditions same as the Rev. David F. McGrath Scholarship I.

The Rev. David F. McGrath Scholarship III.—(\$8,000). Founded in 1920 by the Rev. David F. McGrath, '70, providing board, tuition and room for the entire course, conditions same as the Rev. David F. McGrath Scholarship I.

The Patrick J. Murphy Scholarship.—(Income on \$1,500). Founded in 1914 by Mrs. Ellen M. Murphy, as a memorial to her husband, the late Patrick J. Murphy, Worcester, Mass.

The O'Driscoll Scholarship.—(Income on \$3,000). Founded in 1874, entitling two students to \$60.00 per year each, limited to residents of the City of Worcester, who are candidates for the priesthood, and selected by the Bishop of Springfield or his delegate.

The M. Thomas O'Leary Scholarship.—The gift of Mrs. Mary O'Leary, in memory of her deceased husband, M. Thomas O'Leary, for tuition, open to competitive examination for residents of the City of Worcester and Millbury.

The Rev. Daniel H. O'Neill Scholarship I.—(Income on \$1,000). Founded in 1895, limited to residents of St. Peter's Parish, Worcester, Mass.

The Rev. Daniel H. O'Neill Scholarship II.—(Income on \$1,500). Founded in 1908, limited to residents of the City of Worcester.

The Rev. Dr. Patrick B. Phelan Scholarship I.—(\$8,000). Founded in 1917 by Rev. Dr. Patrick B. Phelan, '69, for board, tuition and room for the entire course, open to competition for graduates of the Sacred Heart School, Holyoke, Mass.

The Rev. Dr. Patrick B. Phelan Scholarship II.—(\$8,000). Same as Rev. Dr. Patrick B. Phelan Scholarship I.

The Rev. John J. Power Scholarship.—(Income on \$1,500). Founded in 1907 by the late John J. Power, D.D., limited to residents of St. Paul's Parish, Worcester, Mass.

The "Quid Retribuam" Scholarship.—(Income on \$8,000). Founded in 1907 by a Friend of Education in

gratitude for Divine favors; placed at the disposal of Rev. T. E. Murphy, S.J., and if not filled by him, competitive examinations will be held.

The John Reid Scholarship.—(Income on \$1,500). Founded in 1894, limited to residents of Worcester.

The Reilly Memorial Scholarship.—(Income on \$1,000). Founded in 1922 by Joseph Reilly.

The Rev. William H. Rogers Scholarship.—(Income on \$10,000). Founded in 1918 by Rev. William H. Rogers, '68.

The Hon. John E. Russell Scholarship.—(Income on \$1,500). Founded in 1907 by a Friend of the College.

The Dr. Eugene E. and Alice K. Sullivan Scholarship.—(Income on \$2,000). Founded in 1920 and open to competition among deserving students of the City of Worcester.

The Rev. Robert Walsh Scholarship.—(Interest on \$1,000). Founded in 1895, limited to residents of the Immaculate Conception Parish, Worcester, Mass.

The Stephen V. Duffy Scholarship.—(Income on \$5,000). Founded in 1928 by Mr. Stephen V. Duffy of Brooklyn, N. Y., for the benefit of a worthy student, selected by the President of the College, from the Borough of Brooklyn, N. Y.

All future scholarships will be accepted with the understanding that the income from the sum will be the amount applicable to the holder of the scholarship.

It is hoped that, in time, other generous friends of the college may be inspired to found at least partial scholarships and thus enable the Faculty, in answer to numerous appeals from deserving students, to make reductions for board and tuition. Thus the interests of education and charity could be made to go hand in hand and the future success of many a promising young man's career would be

assured. Fifteen thousand dollars will found a scholarship providing tuition, board and lodging with furnished room and attendance. Five thousand dollars will found a scholarship giving free tuition.

Another method of assisting both Faculty and students is the foundation of medals and other prizes. The gift of \$500 or \$600 will found a medal in perpetuity and the founder's name will be perpetuated in the annual catalogues. It is hardly possible to conceive a more effectual way of perpetuating the memory of a benefactor than this foundation of college prizes and scholarships. The name of the benefactor will be annually recalled as long as the college survives, and unborn generations of beneficiaries will bless the memory of the benefactors.

FELLOWSHIPS

Graduate Fellowships in Chemistry. The College established in 1926, six graduate fellowships in Chemistry, each fellowship carrying a stipend of \$1000. They are offered to graduates of colleges and technical schools who are properly qualified to undertake graduate work.

Commencement Programme

WEDNESDAY, JUNE 19, 1929

OVERTURE—Zampa *Herold*

SALUTATORY

Origins of the Constitution

JOHN L. MCCROHAN

FIRST ORATOR

Limitations of Constitutional Power

CHARLES S. WHELAN

SECOND ORATOR

Government for the People

JUSTIN J. MURPHY

INTERMEZZO *Selected*

CONFERRING OF DEGREES

VALEDICTORY

The Constitution and Religious Liberty

EDWARD A. O'RORKE

ADDRESS

HIS EXCELLENCY FRANK G. ALLEN

RECESSIONAL

Degrees Conferred

HONORARY DEGREES

Doctor of Laws

James M. Kieran	New York, N. Y.
Edward V. Killeen	Brooklyn, N. Y.

Doctor of Literature

Rev. Francis P. Donnelly, S.J.	Poughkeepsie, N. Y.
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DEGREES IN COURSE

Master of Science

Joseph V. Barton	Lexington, Ky.
Bartholdt C. Hadler.....	Luverne, Minn.
William C. Oelke (<i>cum laude</i>).....	Magnolia, Minn.
Lewis F. Warsing.....	Huron, S. D.

Bachelor of Arts

Lawrence F. Ahern.....	Concord, N. H.
Albert J. Bajohr (<i>cum laude</i>).....	Brooklyn, N. Y.
Edward F. Barrett.....	Danbury, Conn.
Frank E. Barrett.....	Lowell, Mass.
John T. Barrett.....	Hartford, Conn.
William J. Barrett.....	No. Adams, Mass.
Gerald M. Barry.....	No. Cambridge, Mass.
William J. Beane, Jr.....	Providence, R. I.
Louis A. Bickford.....	Springfield, Mass.
John F. Boylan.....	Brooklyn, N. Y.
Ambrose J. Brady.....	Yonkers, N. Y.
Irving T. Brennan.....	Tenafly, N. J.
Cornelius W. Buckley.....	Worcester, Mass.
Richard H. Buckley.....	Albany, N. Y.
Nicholas J. Bush.....	Lakewood, Ohio
Robert F. Cahill (<i>cum laude</i>).....	Brockton, Mass.
Thomas J. Carberry.....	Worcester, Mass.
Joseph H. Carey.....	Worcester, Mass.
Louis J. Carissimi.....	Suffern, N. Y.
Francis J. Carmody (<i>cum laude</i>).....	Rutland, Vt.
Walter T. Carroll.....	Worcester, Mass.

Joseph F. Casey.....	No. Abington, Mass.
Matthew J. Casey.....	Portsmouth, N. H.
Joseph A. Chobian.....	Seymour, Conn.
Daniel H. Coakley, Jr.....	Brighton, Mass.
Thomas P. Coffey.....	Westfield, Mass.
Joseph T. Collins.....	Springfield, Mass.
Thomas J. Connery.....	Providence, R. I.
Daniel J. Connor.....	So. Hadley Falls, Mass.
Joseph A. Connors.....	So. Amboy, N. J.
Francis J. Cooney.....	Providence, R. I.
Thomas J. Corbett.....	New Haven, Conn.
William D. Coughlan (<i>cum laude</i>).....	Abington, Mass.
Paul B. Couming.....	Worcester, Mass.
Martin A. Crean.....	Waterbury, Conn.
Robert C. Crowley.....	Holyoke, Mass.
John M. Cummings.....	No. Adams, Mass.
George B. Curtiss.....	Waterbury, Conn.
Elmer A. Delahanty.....	Fall River, Mass.
Francis J. Despres.....	Westboro, Mass.
H. Ernest Dionne (<i>cum laude</i>).....	New Bedford, Mass.
Matthew T. Doherty, Jr.....	Holyoke, Mass.
Phillip A. Doherty, Jr.....	Brooklyn, N. Y.
Gerald T. Donoghue.....	Houston, Texas
Joseph J. Donoghue.....	Worcester, Mass.
Daniel J. Donovan, Jr.....	Peabody, Mass.
Michael V. Doran.....	Waterbury, Conn.
Edmund F. Dowd (<i>cum laude</i>).....	Worcester, Mass.
John J. Drummey.....	Jamaica Plain, Mass.
Patrick B. Dunne (<i>cum laude</i>).....	New York, N. Y.
John E. Dunphy (<i>cum laude</i>).....	Northampton, Mass.
Gerard J. Early.....	Dickson City, Pa.
Joseph B. Egan, Jr. (<i>cum laude</i>).....	Plainfield, N. J.
Joseph W. Faltanavic.....	Sutton, Mass.
Edmund Fanning.....	Norwich, Conn.
Bernard J. Finnegan.....	Waterbury, Conn.
Charles H. Flynn (<i>cum laude</i>).....	Derby, Conn.
John J. Foley (<i>cum laude</i>).....	New York, N. Y.
John J. Foley.....	Northampton, Mass.
Homer J. Forcier (<i>cum laude</i>).....	E. Jaffrey, N. H.
Daniel J. Gallagher.....	Washington, D. C.
Edward J. Garrity.....	Uxbridge, Mass.
Robert F. Giegengack (<i>magna cum laude</i>).....	Brooklyn, N. Y.
Maurice V. Goan.....	Portland, Me.

John G. Gourdeau, Jr.....	Lawrence, Mass.
Edward J. Hackett.....	Jersey City, N. J.
Patrick G. Hallihan.....	Worcester, Mass.
Richard F. Harrell (<i>cum laude</i>).....	Dorchester, Mass.
John T. Harrington.....	Holyoke, Mass.
Elbert J. Harron.....	Revere, Mass.
James A. Hayden.....	Tulsa, Okla.
George M. Hayes.....	Ipswich, Mass.
Richard A. Hebert.....	Portland, Me.
Thomas H. Hehir.....	Worcester, Mass.
William R. Hill, Jr. (<i>cum laude</i>).....	Providence, R. I.
Charles P. Hornauer (<i>cum laude</i>).....	Trenton, Mich.
Adolph W. Houde.....	Leominster, Mass.
Delmar V. Hughes.....	New Rochelle, N. Y.
Lawrence F. Jacobs.....	Pittsfield, Mass.
Joseph I. Johnson (<i>summa cum laude</i>).....	Lenox, Mass.
Walter J. Joyce.....	Holyoke, Mass.
Francis J. Kaicher.....	Brooklyn, N. Y.
William B. Kearney.....	Brooklyn, N. Y.
Paul C. Keleher.....	Woburn, Mass.
William D. Kelleher.....	Worcester, Mass.
Horace F. Kelly.....	Brooklyn, N. Y.
John F. Kelly.....	Fall River, Mass.
William John Kelly.....	Rockaway Beach, N. Y.
William Joseph Kelly.....	Syracuse, N. Y.
Leo G. Kennedy.....	Jersey City, N. J.
John F. Kiley.....	Lynbrook, N. Y.
Arthur J. King.....	Worcester, Mass.
Clifford J. King.....	Holyoke, Mass.
Edward T. King.....	Worcester, Mass.
John J. Larkin.....	Stamford, Conn.
Anthony L. Lashenske.....	Athol, Mass.
William E. Lawson (<i>cum laude</i>).....	Rutland, Vt.
Robert J. Leamey.....	Oneonta, N. Y.
Frank H. Lee, Jr.....	Danbury, Conn.
Joseph E. Leonard.....	Taunton, Mass.
Hervey G. Letourneau.....	Worcester, Mass.
Gerald T. Lilly.....	Northport, N. Y.
Paul R. Lilly.....	Brooklyn, N. Y.
Francis E. Lonergan, Jr.....	E. Braintree, Mass.
Walter J. Loughlin.....	Worcester, Mass.
Edward B. Lucitt (<i>cum laude</i>).....	So. Amboy, N. J.
John P. Lucey.....	Worcester, Mass.

John A. Luddy.....	Waterbury, Conn.
J. Francis Lyons.....	Springfield, Mass.
Richard A. Maguire.....	Somerville, Mass.
Norman A. Mahar.....	Syracuse, N. Y.
James C. Maher.....	Portland, Me.
James H. Mahoney.....	Holyoke, Mass.
John F. Maley, Jr. (<i>cum laude</i>).....	Mt. Carmel, Pa.
John F. Mallon.....	New York, N. Y.
T. Gerard Manning (<i>cum laude</i>).....	Harrison, N. J.
Richard R. Martin.....	Holyoke, Mass.
J. Hector McAllister.....	Brightwaters, N. Y.
Charles J. McAndrew.....	Barre, Mass.
Henry J. McCabe.....	So. Orange, N. J.
Robert H. McCarn (<i>cum laude</i>).....	Biddeford, Me.
Bernard W. McCarthy (<i>cum laude</i>).....	Worcester, Mass.
Walter H. McCloskey.....	Uxbridge, Mass.
John L. McCrohan (<i>magna cum laude</i>)..	Brighton, Mass.
Leo J. McDermott.....	Portland, Me.
Walter J. McDonald.....	Carbondale, Pa.
George F. McDonough.....	Hartford, Conn.
Lawrence D. McGillicuddy.....	Worcester, Mass.
Peter J. McGrath.....	Manchester, N. H.
Joseph P. McGuire (<i>cum laude</i>).....	Meriden, Conn.
George T. McInerney.....	Jersey City, N. J.
Edward J. McKenna.....	Pittsfield, Mass.
Joseph R. McMahan.....	Pittsfield, Mass.
William H. McMorrow.....	So. Boston, Mass.
Leo A. McNamara.....	Worcester, Mass.
Brendan F. McSheehy (<i>cum laude</i>).....	Whitinsville, Mass.
Howard J. Meehan.....	Florence, Mass.
William J. Millane, Jr. (<i>cum laude</i>).....	Holyoke, Mass.
Daniel J. Minan, Jr.....	Jersey City, N. J.
John P. Moran.....	New York, N. Y.
Francis J. Moynahan.....	Chicopee, Mass.
Joseph Mullin.....	Rochdale, Mass.
Charles E. Murphy.....	Pittsfield, Mass.
Edmund C. Murphy.....	Brooklyn, N. Y.
Edward F. Murphy.....	W. Newton, Mass.
John W. Murphy.....	Auburn, Mass.
Justin J. Murphy (<i>magna cum laude</i>).....	New York, N. Y.
Lawrence J. Murphy.....	Pittsfield, Mass.
William J. Murphy (<i>cum laude</i>).....	New York, N. Y.
Hugh V. Murray, Jr. (<i>cum laude</i>).....	Carlyle, Ill.

William J. Murray (<i>cum laude</i>)	Brooklyn, N. Y.
Richard H. Nolan	Jamaica Plain, Mass.
John J. O'Brien	Springfield, Mass.
Stephen J. O'Brien, Jr.	Waterbury, Conn.
Daniel F. O'Connor	Worcester, Mass.
Ernest E. O'Connor	Portland, Me.
James F. O'Donnell (<i>cum laude</i>)	Warsaw, N. Y.
Wilbur F. O'Donnell	Holyoke, Mass.
Matthew J. O'Keefe	Peabody, Mass.
Joseph G. O'Neill	Worcester, Mass.
Edward A. O'Rorke (<i>cum laude</i>)	Whitestone, N. Y.
John H. O'Toole, Jr.	E. Pepperell, Mass.
Napoleon A. Pelletier	Marlboro, N. H.
Aime A. Petit	New Bedford, Mass.
Richard J. Powers	Savannah, Ga.
James H. Ray	New York, N. Y.
Raymond C. Reilly	Rensselaer, N. Y.
Francis T. Roche	Palmer, Mass.
Paul J. Rooney	Brattleboro, Vt.
William A. Rourke	Worcester, Mass.
Gerald T. Ryan	Brooklyn, N. Y.
Francis J. Ryan, Jr. (<i>cum laude</i>)	Brooklyn, N. Y.
V. Gerard Ryan	Ansonia, Conn.
Thomas P. Scahill	Springfield, Mass.
Andrew W. Scannell	Devon, Conn.
Joseph W. Scully	Waterbury, Conn.
Raymond E. Shaw	Millbury, Mass.
Leo C. Shea (<i>cum laude</i>)	Worcester, Mass.
Thomas F. Shea	Waterbury, Conn.
Albert T. Sheehan	New Haven, Conn.
Thomas E. Sherry	Fall River, Mass.
John W. Siebert, Jr.	Worcester, Mass.
Anthony J. Sitkowski, Jr.	Webster, Mass.
John F. Spranz (<i>cum laude</i>)	Guttenburg, N. J.
William S. Spranz	Guttenburg, N. J.
Francis A. Stout, Jr.	Milton, Mass.
Albert J. Sugrue	Waterbury, Conn.
John P. Sullivan	Worcester, Mass.
Lawrence M. Sullivan	Jersey City, N. J.
Michael C. Sullivan	Worcester, Mass.
Walter J. Sullivan (<i>cum laude</i>)	E. Pepperell, Mass.
Edmund M. Sweeney	Waterville, Me.
Robert L. Sweeney (<i>cum laude</i>)	Binghamton, N. Y.

Thomas J. Sweeney (<i>cum laude</i>).....	Worcester, Mass.
Raymond M. Thompson.....	Worcester, Mass.
Raymond F. Tougas.....	No. Brookfield, Mass.
John A. Trinnier.....	Whitinsville, Mass.
Harry F. Tuttle (<i>cum laude</i>).....	Worcester, Mass.
Alexander J. Verdon.....	Hoboken, N. J.
Daniel M. Walsh, Jr.....	Springfield, Mass.
James B. Webster (<i>magna cum laude</i>)....	Hicksville, N. Y.
John J. Welsh.....	Manchester, N. H.
William B. Welz.....	No. Adams, Mass.
Charles S. Whelan (<i>cum laude</i>).....	Worcester, Mass.
Edwin A. T. Williams (<i>cum laude</i>).....	So. Boston, Mass.
Francis J. Wynn.....	Worcester, Mass.

Bachelor of Science

(*In Chemistry*)

Frank T. Hill (<i>cum laude</i>).....	New Haven, Conn.
Thomas F. Lynch.....	Waterbury, Conn.
Edward S. Matelis.....	Baltimore, Md.
William J. Ring.....	Worcester, Mass.

Bachelor of Science

(*In Physics*)

George S. Browne.....	New Haven, Conn.
Thomas F. Burns.....	Worcester, Mass.
Walter W. Granger.....	Worcester, Mass.
Donald M. O'Halloran.....	Worcester, Mass.

Bachelor of Science

(*General Course*)

Samuel D. Bird (<i>summa cum laude</i>).....	Freeport, N. Y.
Frank Travers.....	Worcester, Mass.

Bachelor of Philosophy

Peter A. Bove.....	Rutland, Vt.
Reginald A. Burns.....	Torrington, Conn.
J. Francis Cahill.....	Milford, Mass.
Frank R. Connors.....	Salem, Mass.
Maurice J. Connors.....	Waterbury, Conn.
James W. Coughlan.....	Jamaica Plain, Mass.
Raymond J. Dobens.....	Nashua, N. H.
Edward P. Dowling.....	Framingham, Mass.

Commencement Programme

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W. Ronald Drais.....	Syracuse, N. Y.
James P. Fitzgerald.....	Wakefield, Mass.
George W. Fitzgibbon.....	Worcester, Mass.
Theodore P. Gahan.....	Medford, Mass.
Joseph E. Hannigan.....	Worcester, Mass.
Cornelius K. Hurley.....	Gardner, Mass.
William R. Kearnan.....	Whitinsville, Mass.
Paul J. Kittredge.....	Clinton, Mass.
John V. Mahaney.....	Biddeford, Me.
Michael J. Mikelski.....	Plains, Pa.
John J. Morris.....	Washington, D. C.
John V. Murphy.....	Cambridge, Mass.
Roland A. O'Keefe.....	Middleboro, Mass.
Thomas B. O'Leary.....	Hartford, Conn.
Richard J. Phelan.....	Medford, Mass.
John R. Sugrue.....	Waterbury, Conn.
John F. Sullivan.....	Worcester, Mass.

CROMPTON MEDAL—The Crompton Gold Medal, founded in August, 1875, by George Crompton, Esq., for the best Scientific Essay submitted during the school year, was awarded to

JAMES D. CROWLEY, '30

FLAHERTY MEDAL—The Flaherty Gold Medal, founded in May, 1903, by Patrick W. Flaherty, Esq., for the best Historical Essay submitted during the academic year, was awarded to

HARRY F. TUTTLE, '29

for his essay entitled "Catholics in the American Revolution."

KILLEEN CHEMISTRY AWARD—The Killeen Purse of Fifty Dollars in Gold for general excellence throughout the course in Chemistry was awarded to

JOHN F. SPRANZ, '29

HORATIAN PRIZE—The Horatian Prize of Twenty-five Dollars, the gift of Dr. Clement C. Maxwell of the Class of 1920, for the best written appreciation of Ode I, Book I, was awarded to

WILLIAM C. ZELLER, '32

REILLY MEMORIAL PURSE—The James H. Reilly Memorial Purse, founded by Joseph J. Reilly, '04, and immediate relatives, to be awarded annually to the student contributing the best short story to *The Purple*, will be awarded in September.

DE VALERA PURSE—The De Valera Purse of Fifty Dollars, yielded by the permanent fund of one thousand dollars, the gift of Daniel H. Coakley, for the best essay on a subject taken from Irish History, was awarded to

EDWARD A. O'RORKE, '29 HARRY F. TUTTLE, '29

(*ex aequo*)

for their essays entitled "History of the Faith in Ireland."

DOWNEY PRIZES—The Downey Prizes, purses of Fifty and Twenty-five Dollars respectively, founded by Mr. John M. Fitzgerald, Committee of Public Relations, Eastern Railroads, in honor of Rev. Francis X. Downey, S.J., Dean of Holy Cross College, for the best two essays submitted during the academic year on economic subjects, were awarded to LAWRENCE M. SULLIVAN, '29, first prize, and JAMES W. COUGHLAN, '29, second prize, for their respective essays, "Railroads versus Waterways," and "What the Boston and Maine Terminal Has Done for New England."

MCMAHON HISTORICAL PRIZES—The McMahon Historical Prizes, founded in 1927 by Reverend John W. McMahon of the Class of 1867, Pastor of St. Mary's Church, Charlestown, Mass., of Fifty, Thirty, and Twenty Dollars for the best essays on the history of the Catholic Church in New England were awarded for essays on the subject, "Catholic Indian Mission at Norridgewock, Maine," the first prize of fifty dollars was awarded to HARRY F. TUTTLE, '29. The second and third prizes were awarded to WILLIAM J. CHAPITIS, '30, and JAMES D. SULLIVAN, 31, respectively.

STUDENT ATHLETE MEDAL—The Student Athlete Medal, the gift of the Class of 1911, for the Student Athlete attaining the highest average during the academic year, was awarded to

RICHARD F. HARRELL, '29

who attained an average of 87.2%, or 1396 points out of a possible 1600 points for all the studies of the Senior year.

SOCIETIES AND PUBLICATIONS.

SODALITY OF THE IMMACULATE CONCEPTION

This Sodality was organized on the eighth of December, 1844, and aggregated to the Roman Prima Primaria on the tenth of April, 1846, under the patronage of St. Aloysius. The object of the Sodality is the fostering of filial devotion to the Mother of God and the practice of virtue and piety among its members.

Moderator—Rev. John D. Wheeler, S.J.

OFFICERS—Richard H. Buckley, '29, *Prefect*; Ambrose J. Brady, '29, *Assistant Prefect*; Alfred A. Ehrhardt, '30, *Organist*.

DAY STUDENTS' SODALITY

This Sodality was organized as a branch of the Sodality of the Immaculate Conception in May, 1903, and was aggregated to the Roman Prima Primaria in May, 1904, under the patronage of St. Stanislaus.

Moderator—Rev. William D. Sheehan, S.J.

OFFICERS—Walter T. Carroll, '29, *Prefect*; Raymond F. Tougas, '29, *Treasurer*; Thomas H. Hehir, '29, *Secretary*.

B. J. F. DEBATING SOCIETY

This Society, founded in 1846, in honor of the founder of Holy Cross College, the Right Reverend Benedict Joseph Fenwick, is essentially a debating society, aiming at the promotion of literary knowledge, the cultivation of eloquence and readiness in debate.

Moderator—Rev. Joseph S. Flanagan, S.J.

OFFICERS—John J. Foley, '29, *President*; John E. Dunphy, '29, *Vice-President*; Edmund M. Sweeney, '29, *Secretary*.

PHILOMATHIC DEBATING SOCIETY

This Society, open to all students of the College, was organized for the purpose of promoting and developing the power to think logically and forcefully on one's feet, to organize a coherent and persuasive speech, and to acquire ease and grace in presentation. This Society has always maintained a standard of quality, and the results of this policy have been demonstrated in the impressive representation of the Society on Intercollegiate and Class debating teams.

Moderator—Rev. James H. Burke, S.J.

OFFICERS—Edward A. O'Rorke, '29, *President*; James M. Carroll, '30, *Vice-President*; Leonard M. Bertsch, '30, *Secretary*.

THE DRAMATIC SOCIETY

The first dramatic societies established at the College were the "Pakachoag Dramatic Club" and the "Smithsonian Ethiopian Minstrel Club," founded in 1844. In 1846 the Dramatic Club was reorganized under the former name. In 1889 the society was established on its present basis, with the chief aim to promote elocution by training the students in dramatic art. Each year classic dramas are presented with marked success.

Moderator—Rev. Francis X. Downey, S.J.

OFFICERS—Edward A. O'Rorke, '29, *President*; Harry F. Tuttle, '29, *Vice-President*; Nicholas J. Healy, '31, *Secretary*; Edward J. Keenan, '31, *Business Manager*.

THE MUSICAL CLUBS

The aim of these societies is the cultivation of vocal and instrumental music. Concerts are given in various cities in the East, and excellent programs of vocal and instrumental music and band concerts are given.

Moderator—Rev. John J. Dwyer, S.J.

Graduate Manager—Thomas P. Laffin, '26

Conductor—J. Edward Bouvier, A.M.

OFFICERS—Francis A. Stout, Jr., '29, *President*; Edward M. Sweeney, '29, *Vice-President*; Charles A. Murphy, '29, *Secretary*; Daniel J. Donovan, Jr., '29, *Manager*; Andrew W. Scannell, '29, *Librarian*.

THE MENDEL ACADEMY

The Fall of 1927 saw the old Mendel Club displaced by a newly formed institution, the Mendel Academy. The purpose of the Mendel Academy is to foster an active interest in biological problems and to make available the means for such active pursuit.

Faculty Director—John Giesen, M.A., Sc.D.

President—John E. Dunphy, '29.

Vice-President—Charles W. Whelan, '29.

Secretary—John E. Cahill, A.B.

SCIENTIFIC SOCIETY

The Society was founded in 1908 for the purpose of giving an opportunity to the students for discussion of subjects in physics, by means of bi-weekly meetings and conferences, that could not be treated in the regular course. The membership of this Society is restricted to honor students in physics in the Junior and Senior years.

Moderator—Rev. Joseph P. Merrick, S.J.

OFFICERS—George W. Browne, '29, *President*; Michael J. Mikelski, '29, *Vice-President*; Samuel D. Bird, '29, *Secretary*; William R. Hill, '29, *Treasurer*.

THE HOLY CROSS PURPLE

The Holy Cross Purple is a monthly magazine published by the students of the college. Its aim is to cultivate a high literary taste among the students by exercising them in both critical and creative compositions.

Moderator—Joseph R. Maxwell, S.J.

BOARD OF EDITORS—Edward F. Murphy, '29, *Editor-in-Chief*; James D. Sullivan, '31, *Purple Patcher*; Maurice F. English, '31, *Under the Rose*; Edward J. McKenna, '29, *The Moon of Books*; George M. Hayes, '29, *Staff Artist*; Walter J. Sullivan, '29, *Alumni Editor*; Joseph X. Trainor, '30, *Athletics*.

BUSINESS BOARD—Francis J. Moynahan, '29, *Business Manager*; John A. Langford, '30, James C. Auth, '31, *Assistants*.

THE TOMAHAWK

The Tomahawk, the weekly paper of the College, first appeared at the College during the academic years of 1924-1925. Its purpose is to secure a firmer bond among the undergraduates and also to serve as a nexus between the Alumni and Alma Mater, chronicling the successes of the Alumni and telling them the important happenings of the life on the Hill.

Editor-in-Chief—Daniel J. Minan, Jr., '29

Business Manager—Daniel J. DeCourcy, '30

Managing Editor—John J. Barrett, '29

Editorial Chairman—John E. Dunphy, '29

The Fircone—Gerald T. Donoghue, '29

Tomarot—Edwin A. T. Williams, '29

Sports Editor—William J. Murray, '29

Circulation Manager—John G. Gourdeau, Jr., '29

THE HORMONE

The Hormone is a monthly magazine edited by the Department of Chemistry. Its aim is twofold, first, an exposition of the work being accomplished in the Department; secondly, criticism of modern chemical theories.

Editor-in-Chief—Rev. George F. Strohaber, S.J.

Assistant Editors—Frederick T. Coonan, M.S.

T. Leonard Kelly, M.S.

THE STUDENT COUNSELLORS

Student Counsellor in Senior Year—Rev. Joseph F. Sullivan, S.J.

Student Counsellor in Junior Year—Rev. John E. Welsh, S.J.

Student Counsellor in Sophomore Year—Rev. John D. Wheeler, S.J.

Student Counsellor in Freshman Year—Rev. Neil L. Bulman, S.J.

The principal duty of the Student Counsellors is to direct the spiritual activities of the College and the various religious societies and sodalities, in regard to which they exercise the same supervision as the Dean of Discipline exercises in his department.

They provide opportunities for the students to receive the Sacraments in addition to times assigned for the general student body.

They are in a special sense the friends and advisers of the students, not only in matters directly spiritual, but also material and temporal, in their studies, their social affairs, and in other intimate and personal matters as each one may wish.

One of the questions of highest importance to every college or high school graduate is the wise choice of a profession or vocation according to one's character, talents, and attractions both natural and supernatural. No student with a serious outlook on life will fail to determine, well in advance of his graduation, the career which under God's providence will best assure his temporal success and his eternal happiness. In this matter the assistance of the Student Counsellors will be invaluable. Their hours will be arranged to afford ample opportunity to the students for conferring with them.

MISSION UNIT

The Holy Cross Unit of the Mission Crusade at the College was established in 1921 and relief of the Missions was first confined to donations received through the Mite Box in the Office of Discipline. In March, 1925, the unit inaugurated the envelope collection at Mass on Sundays, and since, have contributed to foreign and home missions large sums of money, large quantities of Catholic papers, altar supplies, books, and clothing.

Moderator—Rev. John D. Wheeler, S.J.

Assistant Moderator—Frank Gallagher, A.B.

HOLY CROSS SANCTUARY SOCIETY

Moderator—Rev. Arthur B. Tribble, S.J.

Master of Ceremonies—Richard H. Buckley, S.J.

HOLY CROSS ATHLETIC ASSOCIATION

Faculty Moderator—Rev. John D. Wheeler, S.J.

Director of Athletics—Cleo A. O'Donnell, '08

Assistant Director of Athletics—Eugene F. Flynn, '22

President—Daniel H. Coakley, Jr., '29

Secretary—Charles P. Hornauer, '29

Treasurer and Ticket Manager—Francis L. Miller

Football—Cleo A. O'Donnell, '08, *Head Coach*; Luke Kelly, John M. Reed, ex-'05, Francis S. O'Connor, '26, Arthur M. Corcoran, August P. Cervini, '28, *Assistants*.

Baseball—John J. Barry, ex-'10.

Basketball—John M. Reed, ex-'05.

Track—Bartholomew F. Sullivan.

COLLEGE DIRECTORY, 1928-1929

M.S. COURSE IN CHEMISTRY

Barton, Joseph V.	Lexington, Ky.
Hadler, Bartholdt C.	Luverne, Minn.
Oelke, William C.	Magnolia, Minn.
Warsing, Lewis F.	Huron, S. D.

SPECIAL STUDENTS

Condon, Robert J., A.B.	Susquehanna, Pa.
Fay, Philip	Lowell, Mass.
O'Connor, William F., A.B.	Far Rockaway, N. Y.
St. Pierre, Roderick G., A.B.	Berlin, N. H.
Vembré, Rev. Stanislaus J.	Worcester, Mass.

ARTS COURSE

Adams, John F.	Freshman	New Haven, Conn.
Ahern, Lawrence F.	Senior	Concord, N. H.
Albrecht, Henry F.	Sophomore	Green Island, N. Y.
Alishausky, Joseph P.	Junior	Waterbury, Conn.
Alger, James J.	Sophomore	Manchester, N. H.
Ambrose, John F.	Sophomore	Danvers, Mass.
Argy, Thomas F. M.	Sophomore	Turners Falls, Mass.
Arnold, James E.	Junior	Peabody, Mass.
Asselta, Franklin G.	Freshman	Fitchburg, Mass.
Aucoin, Roland R.	Junior	Spencer, Mass.
Austin, Joseph F.	Sophomore	Bondsville, Mass.
Auth, James C.	Sophomore	Springfield, Mass.
Baiorunos, John E.	Freshman	Brockton, Mass.
Bajohr, Albert J.	Senior	Brooklyn, N. Y.
Bakewell, Claude I.	Freshman	St. Louis, Mo.
Bakewell, Joseph S. F.	Freshman	St. Louis, Mo.
Bakewell, Paul	Freshman	St. Louis, Mo.
Baldwin, George N.	Sophomore	Appleton, Wis.
Baldwin, Karl P.	Freshman	Appleton, Wis.
Bannin, Thomas J.	Freshman	Brooklyn, N. Y.
Barnes, J. Arthur	Sophomore	Worcester, Mass.
Barrett, Edward F.	Senior	Danbury, Conn.
Barrett, Eugene A.	Junior	Philadelphia, Pa.

Barrett, Frank E.	Senior	Lowell, Mass.
Barrett, John T.	Senior	Hartford, Conn.
Barrett, Robert J.	Sophomore	Danbury, Conn.
Barrett, William J.	Senior	No. Adams, Mass.
Barry, Gerald M.	Senior	No. Cambridge, Mass.
Baxter, Gerard T.	Junior	Brooklyn, N. Y.
Baxter, Gordon A.	Freshman	Brooklyn, N. Y.
Beane, William J., Jr.	Senior	Providence, R. I.
Bellew, Arthur P.	Freshman	Milton, Mass.
Bennett, John J.	Sophomore	Ansonia, Conn.
Bergin, Charles M.	Sophomore	Worcester, Mass.
Bergin, Stephen P.	Freshman	Waterbury, Conn.
Bertsch, Leonard M.	Junior	Akron, Ohio
Bickford, Louis A.	Senior	Springfield, Mass.
Birch, John J.	Junior	Worcester, Mass.
Blake, Walter J.	Freshman	Jersey City, N. J.
Booth, Roger A.	Junior	So. Berwick, Me.
Bouchard, Louis P.	Freshman	Caribou, Me.
Bowes, Thomas E.	Junior	Worcester, Mass.
Bowler, John J.	Sophomore	Unionville, Conn.
Boyd, Luke H.	Junior	Jamestown, N. Y.
Boylan, John F.	Senior	Brooklyn, N. Y.
Boyle, Charles W.	Sophomore	Worcester, Mass.
Brachen, Joseph L., Jr.	Freshman	Astoria, L. I., N. Y.
Brady, Ambrose J.	Senior	Yonkers, N. Y.
Braun, Theodore F.	Freshman	New Haven, Conn.
Brennan, Irving T.	Senior	Tenafly, N. J.
Brennan, William B.	Junior	New York, N. Y.
Bridges, Charles E.	Freshman	Brooklyn, N. Y.
Broderick, Hugh F., Jr.	Junior	Brighton, Mass.
Brosnan, John J., Jr.	Junior	Worcester, Mass.
Brown, James I.	Sophomore	Lee, Mass.
Brunner, George F.	Sophomore	Gardenville, N. Y.
Buckley, Charles J.	Sophomore	Worcester, Mass.
Buckley, Cornelius W.	Senior	Worcester, Mass.
Buckley, Richard H.	Senior	Albany, N. Y.
Burke, James F.	Freshman	Worcester, Mass.
Burke, James H.	Freshman	Buffalo, N. Y.
Burke, John A.	Freshman	New York, N. Y.
Burke, Leo J.	Junior	Worcester, Mass.
Burns, Bernard J.	Sophomore	Lowell, Mass.
Burns, Gerard J.	Freshman	Brooklyn, N. Y.
Bush, Nicholas J.	Senior	Lakewood, Ohio

Butkiewicz, Henry J.	Junior	Worcester, Mass.
Cafferty, Francis J.	Freshman	Worcester, Mass.
Cahill, Frederick T., Jr.	Freshman	Milford, Mass.
Cahill, Robert F.	Senior	Brockton, Mass.
Callahan, Daniel E., Jr.	Sophomore	Norwood, Mass.
Callahan, Edward J.	Sophomore	Lawrence, Mass.
Callahan, Thomas F. X.	Sophomore	No. Adams, Mass.
Campbell, Raymond F.	Junior	Worcester, Mass.
Cannon, John P.	Freshman	Windsor Locks, Conn.
Carberry, Thomas J.	Senior	Worcester, Mass.
Carey, Francis E.	Junior	Lowell, Mass.
Carey, Francis J.	Junior	Dorchester, Mass.
Carey, Joseph H.	Senior	Worcester, Mass.
Carissimi, Louis J.	Senior	Suffern, N. Y.
Carle, Clarke A.	Sophomore	Thompsonville, Conn.
Carlin, Gerald J.	Freshman	Erie, Pa.
Carmody, Francis J.	Senior	Rutland, Vt.
Carney, Frank T.	Sophomore	Hartford, Conn.
Carney, Leo T.	Sophomore	Fitchburg, Mass.
Carney, Michael L. J.	Sophomore	Springfield, Mass.
Carpenter, Elmer E.	Freshman	New York, N. Y.
Carr, Francis H.	Sophomore	Malden, Mass.
Carroll, James M.	Junior	Springfield, Mass.
Carroll, Thomas F.	Sophomore	Millville, Mass.
Carroll, Thomas J., Jr.	Freshman	Gloucester, Mass.
Carroll, Walter T.	Senior	Worcester, Mass.
Casey, Joseph F.	Senior	No. Abington, Mass.
Casey, Matthew J.	Senior	Portsmouth, N. H.
Cassidy, Joseph C.	Freshman	Holyoke, Mass.
Casson, Thomas H.	Junior	Flushing, N. Y.
Caulfield, Thomas E.	Freshman	Woburn, Mass.
Cerasuolo, Anthony W.	Freshman	Medford, Mass.
Chandley, Nathaniel F.	Sophomore.	Worcester, Mass.
Chapitis, William J.	Junior	Rumford, Me.
Chiota, John P., Jr.	Sophomore	Bridgeport, Conn.
Chobian, Joseph A.	Senior	Seymour, Conn.
Clancy, Stuart J.	Junior	Branford, Conn.
Clark, John A.	Freshman	Gt. Barrington, Mass.
Clarke, Gerald V.	Junior	Belle Harbor, N. Y.
*Clarke, Robert R.	Junior	Belle Harbor, N. Y.
Cleary, William J.	Freshman	Elmhurst, N. Y.
Coakley, Daniel H., Jr.	Senior	Brighton, Mass.

* Died May, 1929—R. I. P.

Coffey, Eugene V.	Sophomore	Troy, N. Y.
Coffey, Thomas P.	Senior	Westfield, Mass.
Cole, Cyril G.	Freshman	New Bedford, Mass.
Collins, Charles T.	Freshman	Springfield, Mass.
Collins, Joseph B.	Junior	Worcester, Mass.
Collins, Joseph M., Jr.	Freshman	Brooklyn, N. Y.
Collins, Joseph T.	Senior	Springfield, Mass.
Comerford, Paul J.	Junior	Brighton, Mass.
Conlin, Eugene S.	Junior	Worcester, Mass.
Conlon, Charles F., Jr.	Freshman	Milford, Mass.
Conlon, Joseph A.	Junior	Worcester, Mass.
Connell, Edwin T.	Sophomore	Mt. Vernon, N. Y.
Connell, James D.	Sophomore	Hoboken, N. J.
Connell, Robert E.	Junior	Jersey City, N. J.
Connelly, J. Frederick	Freshman	Elmira, N. Y.
Connelly, Thomas G.	Senior	Brighton, Mass.
Connery, Thomas J.	Senior	Providence, R. I.
Connolly, Edward P.	Sophomore	Natick, Mass.
Connor, Daniel J.	Senior	So. Hadley Falls, Mass.
Connor, John E., Jr.	Freshman	Rochester, N. Y.
Connor, Joseph M.	Sophomore	Fall River, Mass.
Connors, Joseph A.	Senior	So. Amboy, N. J.
Conway, F. Xavier	Junior	New York, N. Y.
Conway, Leroy J.	Junior	Leicester, Mass.
Cooney, Francis J.	Senior	Providence, R. I.
Cooney, Leo J.	Sophomore	Providence, R. I.
Corbett, Thomas J.	Senior	New Haven, Conn.
Corrigan, Edmund J.	Sophomore	New Bedford, Mass.
Costello, Francis D.	Sophomore	Worcester, Mass.
Costello, John J.	Junior	Boston, Mass.
Costello, Patrick J.	Junior	Portland, Me.
Cote, George E.	Sophomore	Springfield, Mass.
Cotter, Edward W.	Junior	Concord, N. H.
Cotter, William E.	Junior	Worcester, Mass.
Coughlan, William D.	Senior	Abington, Mass.
Couming, Paul B.	Senior	Worcester, Mass.
Cowan, Francis A.	Freshman	Jersey City, N. J.
Crapolicchio, Dante V.	Sophomore	Worcester, Mass.
Crean, Martin A.	Senior	Waterbury, Conn.
Crimmins, Thomas F., Jr.	Junior	Brooklyn, N. Y.
Croce, Edmund J.	Junior	Worcester, Mass.
Cronin, Jeremiah J.	Sophomore	Worcester, Mass.
Cronin, Daniel J., Jr.	Junior	Springfield, Mass.

Cross, Ralph T.	Junior	Jamaica, L. I., N. Y.
Croteau, John T.	Sophomore	Worcester, Mass.
Crowley, James D.	Junior	Lynn, Mass.
Crowley, John J.	Junior	Lynn, Mass.
Crowley, Robert C.	Senior	Holyoke, Mass.
Crowley, Robert E.	Freshman	Quincy, Mass.
Cullen, Bernard A.	Junior	Hamilton, Mass.
Cullen, Leo J.	Freshman	Naugatuck, Conn.
Cullum, T. Michael	Junior	Jersey City, N. J.
Cummings, John M.	Senior	No. Adams, Mass.
Cummings, Paul M.	Freshman	Worcester, Mass.
Cunningham, John C.	Sophomore	Richmond, Vt.
Cunningham, Joseph A.	Sophomore	New York, N. Y.
Curran, Robert T.	Sophomore	New York, N. Y.
Currie, Edward P.	Sophomore	East Orange, N. J.
Curry, Francis R.	Freshman	New York, N. Y.
Curtiss, George B.	Senior	Waterbury, Conn.
Cyr, Leo G.	Junior	Limestone, Me.
Cyr, Oscar L.	Sophomore	Manchester, N. H.
Daley, James S.	Junior	Lowell, Mass.
Daley, Robert W.	Freshman	Dorchester, Mass.
Daly, Charles F.	Sophomore	Worcester, Mass.
D'Apice, Francis P.	Junior	Yonkers, N. Y.
Darche, George R.	Freshman	Hillside, N. J.
Davey, Charles A.	Freshman	Brooklyn, N. Y.
Davis, Martin E.	Freshman	Amherst, Mass.
Davoren, David I.	Junior	Milford, Mass.
Dawson, John S.	Junior	Holyoke, Mass.
DeCourcy, Daniel J., Jr.	Junior	Lawrence, Mass.
Deeley, James J.	Sophomore	Waterbury, Conn.
Delaney, John F.	Freshman	Norwich, Conn.
Delaney, William E.	Freshman	New York, N. Y.
Delahanty, Elmer A.	Senior	Fall River, Mass.
Delehanty, Philip W.	Freshman	Rutland, Mass.
De Montigny, Gerard E.	Freshman	Nashua, N. H.
Denehy, Charles L.	Sophomore	Waterbury, Conn.
Derby, George F.	Freshman	Spencer, Mass.
Derwin, Edward P.	Junior	Waterbury, Conn.
Desnoes, Louis A.	Junior	Kingston, Jam., B. W. I.
Despres, Francis J.	Senior	Westboro, Mass.
Devine, Robert E.	Junior	Providence, R. I.
Devlin, James A.	Freshman	Lawrence, Mass.
Dillon, Robert E.	Freshman	Binghamton, N. Y.

Dillon, Thomas F.	Freshman	Leicester, Mass.
Dillon, William J.	Sophomore	Holyoke, Mass.
Dinnean, John J.	Sophomore	New Haven, Conn.
Dionne, H. Ernest	Senior	New Bedford, Mass.
Dion, George E.	Freshman	Central Falls, R. I.
Doherty, Matthew T., Jr.	Senior	Holyoke, Mass.
Doherty, Philip A., Jr.	Senior	Brooklyn, N. Y.
Doheny, Bernard L.	Sophomore	Fitchburg, Mass.
Dolan, William L.	Junior	Adams, Mass.
Donaghy, William A.	Sophomore	New Bedford, Mass.
Donahue, Cornelius F.	Junior	Manville, R. I.
Donahue, Leamon F.	Junior	Bartlett, N. H.
Donahue Paul J.	Junior	Worcester, Mass.
Donlon, Francis X.	Junior	Saugerties, N. Y.
Donnelly, James F., Jr.	Freshman	Ridgewood, N. J.
Donnelly, James P.	Freshman	No. Brookfield, Mass.
Donoghue, Gerald T.	Senior	Houston, Texas
Donoghue, Joseph J.	Senior	Worcester, Mass.
Donohue, John J.	Junior	Worcester, Mass.
Dougherty, Joseph C.	Junior	Chester, Pa.
Dougherty, Thomas L.	Junior	Waterbury, Conn.
Donovan, Daniel J., Jr.	Senior	Peabody, Mass.
Doran, Michael V.	Senior	Waterbury, Conn.
Dowd, Edmund F.	Senior	Worcester, Mass.
Dowd, Francis E.	Freshman	Chicopee Falls, Mass.
Dowd, John A.	Freshman	Worcester, Mass.
Dowd, John E.	Junior	Worcester, Mass.
Downey, Richard J.	Freshman	Worcester, Mass.
Downs, Charles E.	Junior	Fall River, Mass.
Doyle, James F.	Sophomore	Syracuse, N. Y.
Doyle, James J.	Junior	New York, N. Y.
Doyle, James J.	Sophomore	Holyoke, Mass.
Doyle, Patrick A.	Junior	Springfield, Mass.
Doyle, Raymond J.	Junior	Oriskany Falls, N. Y.
Dozier, Carroll T.	Freshman	Richmond, Va.
Drapeau, George, Jr.	Sophomore	Brunswick, Me.
Drummey, John J., Jr.	Senior	Boston, Mass.
Ducey, John M.	Sophomore	Grand Rapids, Mich.
Duggan, Joseph C.	Freshman	New Bedford, Mass.
Dunn, Thomas M.	Junior	Springfield, Mass.
Dunne, Patrick B.	Senior	New York, N. Y.
Dunphy, John E.	Senior	Northampton, Mass.
Durkin, Edward R.	Freshman	Clinton, Mass.

Dwyer, John G.	Junior	Lowell, Mass.
Dwyer, Thomas F.	Sophomore	Providence, R. I.
Dwyer, Thomas H.	Freshman	Rochester, N. Y.
Eagan, Joseph M.	Junior	Worcester, Mass.
Earls, Thomas W.	Sophomore	Cincinnati, Ohio
Earls, William T.	Sophomore	Cincinnati, Ohio
Early, Gerard J.	Senior	Dickson City, Pa.
Eddy, Thomas W.	Freshman	Rutland, Vt.
Egan, Joseph B., Jr.	Senior	Plainfield, N. J.
Ehrhardt, Alfred E.	Junior	Passaic, N. J.
Eidenbach, Herbert J.	Freshman	New York, N. Y.
Eislerloh, Paul J.	Junior	Milford, N. H.
Elliott, Stephen K.	Sophomore	Southington, Conn.
Endres, William S.	Freshman	Flushing, N. Y.
Engels, Walter D.	Freshman	Rockaway Beach, N. Y.
English, Maurice F.	Sophomore	Chicago, Ill.
Eppig, Arthur G.	Sophomore	Rockville Centre, N. Y.
Evers, John A.	Junior	Paterson, N. J.
Fairbend, Gregory L.	Freshman	Hollis, L. I., N. Y.
Faltanavic, Joseph W.	Senior	Sutton, Mass.
Fanelli, Raymond J.	Sophomore	Thompsonville, Conn.
Fanelli, Rocco J.	Freshman	Hartford, Conn.
Fanning, Edmund	Senior	Norwich, Conn.
Farnon, John P.	Freshman	Worcester, Mass.
Farnsworth, Almon G.	Freshman	Camden, N. Y.
Farrell, Francis L.	Freshman	Rumford, Me.
Farrell, Thomas W.	Freshman	Hartford, Conn.
Farrell, William F.	Freshman	Worcester, Mass.
Farrelly, Charles F.	Junior	Albany, N. Y.
Faucher, Arthur J.	Freshman	Worcester, Mass.
Feeny, Timothy M.	Junior	Medford, Mass.
Feily, Joseph F.	Sophomore	Rensselaer, N. Y.
Fernandez, Alexander C.	Sophomore	Brooklyn, N. Y.
Finn, Bernard F.	Junior	Jersey City, N. J.
Finnegan, Bernard J.	Senior	Waterbury, Conn.
Finneran, Joseph J.	Sophomore	Providence, R. I.
Fish, Edgar F.	Junior	Worcester, Mass.
Fitzgerald, Francis N.	Junior	Worcester, Mass.
Fitzgerald, Joseph F.	Junior	Framingham, Mass.
FitzGerald, John F.	Freshman	Worcester, Mass.
FitzGerald, Maurice A.	Junior	New York, N. Y.
Fitzsimmons, Louis G.	Freshman	St. Louis, Mo.
Flanagan, Henry C.	Freshman	Dorchester, Mass.

Flanagan, William J.	Freshman	So. Barre, Mass.
Flanigan, Justin C.	Freshman	Binghamton, N. Y.
Flatley, James J.	Freshman	Manchester, Mass.
Flavin, Daniel F.	Junior	Rockland, Mass.
Flynn, Charles H.	Senior	Derby, Conn.
Fogarty, Thomas F.	Freshman	Providence, R. I.
Foley, James F.	Freshman	Newport, R. I.
Foley, John J.	Senior	New York, N. Y.
Foley, John J.	Senior	Northampton, Mass.
Foley, William J.	Junior	Springfield, Mass.
Foran, John W.	Junior	Worcester, Mass.
Forbes, Albert B.	Sophomore	Brookline, Mass.
Forcier, Homer J.	Senior	East Jaffrey, N. H.
Fox, James J., Jr.	Freshman	Hazleton, Pa.
Foy, Joseph G.	Sophomore	Quincy, Mass.
Friel, Charles J.	Sophomore	Worcester, Mass.
Friel, Edward A.	Freshman	Worcester, Mass.
Fryer, William J.	Sophomore	Hartford, Conn.
Fynn, Francis J.	Freshman	Rumford, R. I.
Gallagher, Charles A.	Sophomore	Albany, N. Y.
Gallagher, Daniel J.	Senior	Washington, D. C.
Gallagher, Francis A., 3rd	Freshman	Providence, R. I.
Gallagher, James L.	Freshman	Pittsburgh, Pa.
Gallagher, Joseph F.	Freshman	New York, N. Y.
Gallagher, William M.	Sophomore	Worcester, Mass.
Gallahue, Stephen C.	Junior	Dorchester, Mass.
Gannon, John F., Jr.	Junior	Pittsfield, Mass.
Garrahan, James J.	Junior	Hazleton, Pa.
Garritty, Edward J.	Senior	Uxbridge, Mass.
Gatzenmeier, David J.	Sophomore	Newport, R. I.
Gebhardt, Graham W.	Sophomore	New Haven, Conn.
Gendron, E. Lloyd	Junior	Fitchburg, Mass.
Gibbons, Guilbert A.	Freshman	Cleveland, Ohio
Giegengack, Robert F.	Senior	Brooklyn, N. Y.
Gilchrist, James F.	Junior	Taunton, Mass.
Gilday, Edward F.	Sophomore	Holyoke, Mass.
Goan, Maurice V.	Senior	Portland, Me.
Golart, David W.	Freshman	Vineyard Haven, Mass.
Gorman, John J.	Sophomore	Wilkes-Barre, Pa.
Gourdeau, John G., Jr.	Senior	Lawrence, Mass.
Grady, James A.	Sophomore	Worcester, Mass.
Grady, Paul E.	Sophomore	Marlboro, Mass.
Granelli, Bryan F.	Freshman	Hoboken, N. J.

Greene, Walter L.	Freshman	Brooklyn, N. Y.
Griffin, James J.	Junior	Hartford, Conn.
Grote, Raymond J.	Freshman	Brooklyn, N. Y.
Haberlin, James C.	Senior	Providence, R. I.
Hackett, Edward J.	Senior	Jersey City, N. J.
Halligan, John P.	Freshman	Troy, N. Y.
Hallihan, Patrick G.	Senior	Worcester, Mass.
Halloran, Edward D.	Sophomore	Torrington, Conn.
Halloran, Francis T.	Junior	So. Boston, Mass.
Halloran, Richard F.	Sophomore	Worcester, Mass.
Halloran, Thomas F.	Freshman	Worcester, Mass.
Hamilton, Edward A.	Freshman	Babylon, N. Y.
Hampsey, Bernard J.	Sophomore	Lebanon, Pa.
Handel, George W.	Sophomore	Youngstown, Ohio
Hanley, Paul F.	Sophomore	Worcester, Mass.
Hanlon, David E.	Freshman	Hyde Park, Mass.
Harley, George V.	Freshman	Freeport, L. I., N. Y.
Harrahy, John P.	Junior	Worcester, Mass.
Harrell, Richard F.	Senior	Dorchester, Mass..
Harrington, Francis V.	Junior	Buffalo, N. Y.
Harrington, John C.	Freshman	Fall River, Mass.
Harrington, John E.	Freshman	Saratoga Springs, N. Y.
Harrington, John F.	Sophomore	Holyoke, Mass.
Harrington, John T.	Senior	Holyoke, Mass.
Harrison, Raymond J.	Sophomore	Taunton, Mass.
Harritty, Joseph T.	Freshman	Clinton, Mass.
Harron, Elbert J.	Senior	Revere, Mass.
Hart, Philip J.	Freshman	Worcester, Mass.
Hartman, Arthur P.	Sophomore	Webster Groves, Mo.
Hartman, Francis	Freshman	Victor, N. Y.
Hasslinger, John B.	Junior	Naugatuck, Conn.
Hayden, James A.	Senior	Tulsa, Okla.
Hayden, William S.	Freshman	Peabody, Mass.
Hayes, George M.	Senior	Ipswich, Mass.
Hayes, Neil B.	Freshman	Adrian, Mich.
Hayes, Stephen V.	Junior	New Bedford, Mass.
Healy, Nicholas J.	Sophomore	New York, N. Y.
Hebert, Richard A.	Senior	Portland, Me.
Hegarty, Richard F.	Sophomore	W. Medford, Mass.
Hehir, Thomas H.	Senior	Worcester, Mass.
Heimer, Arthur J.	Sophomore	Clinton, Mass.
Heinlein, John A.	Sophomore	Brooklyn, N. Y.
Hennessey, Paul T.	Sophomore	Pittsburgh, Pa.

Hennessy, Joseph F.	Sophomore	Springfield, Mass.
Henry, James F.	Sophomore	Milton, Mass.
Henry, Thomas F.	Sophomore	New Haven, Conn.
Henry, Walter E.	Freshman	Worcester, Mass.
Henry, Walter F.	Freshman	Worcester, Mass.
Hickey, Fabian S.	Junior	Jersey City, N. J.
Hickey, Francis R.	Freshman	Worcester, Mass.
Hill, William R.	Senior	Providence, R. I.
Hoar, Leo J.	Junior	New London, Conn.
Hogan, Francis A.	Junior	Albany, N. Y.
Holland, John J.	Freshman	New York, N. Y.
Hornauer, Charles P.	Senior	Trenton, Mich.
Houde, Adolph W.	Senior	Leominster, Mass.
Houlihan, C. Edward	Junior	Ware, Mass.
Houlihan, Joseph E., Jr.	Sophomore	Bangor, Me.
Howe, Arthur B., Jr.	Sophomore	Longmeadow, Mass.
Howe, Raymond J.	Freshman	New York, N. Y.
Hughes, Delmar V.	Senior	New Rochelle, N. Y.
Hurley, John F.	Sophomore	Worcester, Mass.
Hussey, Thomas F.	Sophomore	Worcester, Mass.
Hynes, Thomas W.	Sophomore	Brooklyn, N. Y.
Iago, Ralph W.	Sophomore	No. Brookfield, Mass.
Igoe, Joseph A., Jr.	Sophomore	Brooklyn, N. Y.
Izzo, Louis	Sophomore	New Haven, Conn.
Jacobs, Lawrence F.	Senior	Pittsfield, Mass.
Jeremia, Francis B.	Freshman	Richmond Hill, L. I., N. Y.
Johnson, Joseph I.	Senior	Lenox, Mass.
Jones, Philip T.	Sophomore	E. Weymouth, Mass.
Joyce, James J.	Junior	Worcester, Mass.
Joyce, Walter J.	Senior	Holyoke, Mass.
Kaicher, Francis J.	Senior	Brooklyn, N. Y.
Kaicher, John J.	Freshman	Brooklyn, N. Y.
Kane, John A.	Freshman	No. Adams, Mass.
Kane, Thomas J.	Sophomore	Albany, N. Y.
Kane, William E.	Freshman	Worcester, Mass.
Katsuranis, Joseph J.	Freshman	Westfield, Mass.
Kavanaugh, John J.	Freshman	Worcester, Mass.
Kearney, John A.	Junior	Worcester, Mass.
Kearney, William B.	Senior	Brooklyn, N. Y.
Keating, Anthony F., 2nd	Freshman	Pittsburgh, Pa.
Keating, John G.	Freshman	Fitchburg, Mass.
Keating, Joseph P.	Freshman	Fitchburg, Mass.
Keenan, Edward J.	Sophomore	New York, N. Y.

Keleher, Edmund P.	Sophomore	Woburn, Mass.
Keleher, Paul C.	Senior	Woburn, Mass.
Kelleher, Charles C.	Freshman	Brockton, Mass.
Kelleher, John E.	Freshman	New Haven, Conn.
Kelleher, William D.	Senior	Worcester, Mass.
Kelley, J. Leo	Freshman	Waterbury, Conn.
Kelly, Horace F.	Senior	Brooklyn, N. Y.
Kelly, James J.	Junior	Far Rockaway, N. Y.
Kelly, John F.	Senior	Fall River, Mass.
Kelly, Thomas P.	Sophomore	Holyoke, Mass.
Kelly, William John	Senior	Syracuse, N. Y.
Kelly, William Joseph	Senior	Rockaway Beach, N. Y.
Kennedy, Leo G.	Senior	Jersey City, N. J.
Kenney, Joseph C.	Junior	New York, N. Y.
Kent, John F.	Sophomore	New Britain, Conn.
Kerrigan, John J., Jr.	Freshman	Fall River, Mass.
Kerrigan, Patrick E.	Sophomore	Clinton, Mass.
Kielty, Daniel F.	Junior	Fitchburg, Mass.
Kiernan, Henry J.	Sophomore	Brooklyn, N. Y.
Kiley, John F.	Senior	Lynbrook, N. Y.
King, Arthur J.	Senior	Worcester, Mass.
King, Clifford J.	Senior	Holyoke, Mass.
King, Edward T.	Senior	Worcester, Mass.
King, Thomas E.	Freshman	Worcester, Mass.
Kinney, Francis J., Jr.	Sophomore	Branford, Conn.
Kowalski, Stephen J., Jr.	Freshman	Worcester, Mass.
Labbe, Onil B.	Sophomore	St. Leonard, N. B., Can.
Lally, Robert F.	Sophomore	Milford, Mass.
Lane, John R.	Sophomore	Peabody, Mass.
Langford, John A.	Junior	Springfield, Mass.
Larkin, Frank L.	Junior	Carbondale, Pa.
Larkin, John J.	Senior	Stamford, Conn.
Lashenske, Anthony L.	Senior	Athol, Mass.
Lawler, John F.	Freshman	Worcester, Mass.
Lawson, William E.	Senior	Rutland, Vt.
Leach, Andrew J., Jr.	Junior	Brookfield, Mass.
Leamey, Robert J.	Senior	Oneonta, N. Y.
Leary, Timothy J., Jr.	Freshman	Worcester, Mass.
LeClair, Felix R.	Freshman	Holyoke, Mass.
Lee, Frank H., Jr.	Senior	Danbury, Conn.
Lee, James J.	Junior	Worcester, Mass.
Lee, Peter D.	Sophomore	New York, N. Y.
Lee, Thomas F.	Junior	Danbury, Conn.

Leland, Albert E.	Junior	Worcester, Mass.
Lenahan, Daniel W.	Junior	Taunton, Mass.
Leonard, Joseph E.	Senior	Taunton, Mass.
Leone, Alvin C.	Sophomore	Silver Lane, Conn.
Letourneau, Hervey G.	Senior	Worcester, Mass.
Lillick, Joseph D.	Freshman	Rochester, N. Y.
Lilly, Edward P.	Freshman	Brooklyn, N. Y.
Lilly, Gerald T.	Senior	Northport, N. Y.
Lilly, Paul R.	Senior	Brooklyn, N. Y.
Loftus, John J.	Sophomore	Worcester, Mass.
Loftus, Raymond J.	Freshman	Utica, N. Y.
Logan, Francis D.	Freshman	Dorchester, Mass.
Long, Robert L.	Freshman	Boston, Mass.
Loneragan, Francis E., Jr.	Senior	E. Braintree, Mass.
Loughlin, Walter J.	Senior	Worcester, Mass.
Lucey, Frank L.	Freshman	Worcester, Mass.
Lucey, John P.	Senior	Worcester, Mass.
Lucitt, Edward B.	Senior	South Amboy, N. J.
Luddy, John A.	Senior	Waterbury, Conn.
Lussier, Ralph A.	Junior	Woonsocket, R. I.
Lynch, Daniel A.	Freshman	Brooklyn, N. Y.
Lynch, Francis A.	Junior	Worcester, Mass.
Lynch, Robert A.	Sophomore	Andover, N. Y.
Lyons, J. Francis	Senior	Springfield, Mass.
Lyons, Joseph H.	Sophomore	Chicago, Ill.
Maas, Richard G.	Junior	Milwaukee, Wis.
Madaus, George F.	Sophomore	Worcester, Mass.
Maginnis, Charles D., Jr.	Freshman	Brookline, Mass.
Maggiolo, Walter A.	Junior	Brooklyn, N. Y.
Maguire, Richard A.	Senior	Somerville, Mass.
Mahar, Norman A.	Senior	Syracuse, N. Y.
Maher, Joseph P.	Sophomore	Dedham, Mass.
Maher, William F.	Sophomore	New Haven, Conn.
Mahoney, Arthur L.	Freshman	Taunton, Mass.
Mahoney, Daniel E.	Sophomore	Natick, Mass.
Mahoney, James H.	Senior	Holyoke, Mass.
Mahoney, John J.	Sophomore	Worcester, Mass.
Maley, John F.	Senior	Mt. Carmel, Pa.
Mallon, John F.	Senior	New York, N. Y.
Malone, Thomas B.	Junior	Springfield, Mass.
Mankevige, Simon F.	Sophomore	Larksville, Pa.
Mann, Bernard J.	Sophomore	Bangor, Me.
Mann, Lawrence A.	Sophomore	Bangor, Me.

Manning, Thomas G.	Senior	Harrison, N. J.
Mansfield, James F., Jr.	Freshman	Floral Park, N. Y.
Mara, Walter D.	Sophomore	Worcester, Mass.
Marchukaitis, Bart G.	Junior	Bethlehem, Conn.
Martin, John F.	Junior	Worcester, Mass.
Martin, Raymond O.	Sophomore	Toledo, Ohio
Martin, Richard R.	Senior	Holyoke, Mass.
Masciantonio, Albert J.	Freshman	Atlas, Pa.
Mayer, Fred W.	Freshman	Rye, N. Y.
Mayock, John F.	Sophomore	Wilkes-Barre, Pa.
Meany, John H.	Freshman	Hinsdale, N. H.
Meehan, Howard J.	Senior	Florence, Mass.
Meikle, Robert J.	Freshman	Newport, R. I.
Merrill, John F.	Freshman	Worcester, Mass.
Millane, William J., Jr.	Senior	Holyoke, Mass.
Millea, James F.	Freshman	Peabody, Mass.
Miller, Aloysius G.	Freshman	Pittsburgh, Pa.
Minan, Daniel J., Jr.	Senior	Jersey City, N. J.
Minor, Stephen R.	Junior	Worcester, Mass.
Mirliani, Fred S.	Freshman	New Britain, Conn.
Missett, James S.	Sophomore	Springfield, Mass.
Missett, Joseph R.	Freshman	Ansonia, Conn.
Mitchell, Robert E.	Sophomore	E. Weymouth, Mass.
Moakley, Francis J.	Freshman	New Haven, Conn.
Molloy, George P.	Sophomore	Worcester, Mass.
Monagan, Walter E., Jr.	Freshman	Waterbury, Conn.
Moran, John P.	Senior	New York, N. Y.
Morgan, Hugh J.	Freshman	Westerleigh, S. I., N. Y.
Morgan, John J.	Sophomore	East Jaffrey, N. H.
Morgan, Thomas J.	Sophomore	Fitchburg, Mass.
Moriarty, Edwin S.	Freshman	Fitchburg, Mass.
Moroney, Charles G.	Freshman	Collinsville, Conn.
Morrison, Philip J.	Sophomore	Nashua, N. H.
Moynahan, Francis J.	Senior	Chicopee, Mass.
Moynihan, James J.	Freshman	Worcester, Mass.
Muldoon, Frederick J.	Junior	Brighton, Mass.
Mullaney, Raymond F.	Junior	Worcester, Mass.
Mullen, Alfred A.	Freshman	Methuen, Mass.
Mullen, Joseph F.	Sophomore	Paterson, N. J.
Mullin, Joseph	Senior	Rochdale, Mass.
Mullins, Harold E.	Junior	Bridgeport, Conn.
Mulvey, J. Thomas	Junior	New York, N. Y.
Murphy, Charles E.	Senior	Pittsfield, Mass.

Murphy, Charles J.	Sophomore	Waterbury, Conn.
Murphy, Charles J.	Freshman	Danbury, Conn.
Murphy, Edmund C.	Senior	Brooklyn, N. Y.
Murphy, Edward F.	Junior	No. White Plains, N. Y.
Murphy, Edward F.	Senior	West Newton, Mass.
Murphy, Edward L.	Freshman	Worcester, Mass.
Murphy, Frederick J.	Freshman	Norwich, Conn.
Murphy, Frank T.	Freshman	No. Adams, Mass.
Murphy, Jerome F., Jr.	Freshman	Wellesley Hills, Mass.
Murphy, John J.	Junior	Danbury, Conn.
Murphy, John P.	Sophomore	Worcester, Mass.
Murphy, John W.	Senior	Auburn, Mass.
Murphy, Justin J.	Senior	New York, N. Y.
Murphy, Lawrence J.	Senior	Pittsfield, Mass.
Murphy, William J.	Senior	New York, N. Y.
Murray, George F.	Sophomore	Holyoke, Mass.
Murray, Hugh V., Jr.	Senior	Carlyle, Ill.
Murray, John E.	Sophomore	LeRoy, N. Y.
Murray, Matthew E.	Freshman	Carlyle, Ill.
Murray, Richard A.	Freshman	Gardner, Mass.
Murray, William J.	Senior	Brooklyn, N. Y.
Murtough, James M.	Junior	W. Springfield, Mass.
McAllister, J. Hector	Senior	Brightwaters, N. Y.
McAndrew, Charles J.	Senior	Barre, Mass.
McArdle, Paul B.	Sophomore	Worcester, Mass.
McAvey, Frederick P.	Junior	Worcester, Mass.
McCabe, Henry J.	Senior	So. Orange, N. J.
McCafferty, Bernard P.	Freshman	Landsdowne, Pa.
McCann, Donald H.	Freshman	Rome, N. Y.
McCarn, Robert H.	Senior	Biddeford, Me.
McCarthy, Bernard W.	Senior	Worcester, Mass.
McCarthy, Charles D.	Sophomore	No. Brookfield, Mass.
McCarthy, Thomas F.	Freshman	Lewiston, Me.
McCloskey, Walter H.	Senior	Uxbridge, Mass.
McCooey, Edwin F.	Junior	Blackstone, Mass.
McCooey, John F.	Sophomore	Worcester, Mass.
McCrann, Donald J.	Junior	New Britain, Conn.
McCrohan, John L.	Senior	Brighton, Mass.
McCue, Charles H.	Sophomore	Dorchester, Mass.
McCue, Eugene P.	Freshman	New York, N. Y.
McCue, John H.	Sophomore	Milton, Mass.
McCusker, Joseph A.	Junior	Rockville, Conn.
McDermott, John M.	Junior	Branford, Conn.

McDermott, Leo J.	Senior	Portland, Me.
McDevitt, James G.	Freshman	Binghamton, N. Y.
McDonald, John B.	Junior	Rockville Center, N. Y.
McDonald, Walter J.	Senior	Carbondale, Pa.
McDonnell, John J.	Junior	Groveton, N. H.
McDonnell, Preston J.	Sophomore	Torrington, Conn.
McDonough, George F.	Senior	Hartford, Conn.
McEnaney, Robert W.	Sophomore	Waltham, Mass.
McFadden, Patrick J.	Sophomore	Waterbury, Conn.
McGee, Edward D.	Junior	Hartford, Conn.
McGillicuddy, Lawrence D.	Senior	Worcester, Mass.
McGinn, Robert H.	Freshman	Worcester, Mass.
McGivern, Owen P.	Sophomore	New York, N. Y.
McGovern, Thomas F.	Sophomore	Worcester, Mass.
McGrane, Henry M.	Junior	Troy, N. Y.
McGrath, Francis J.	Junior	Worcester, Mass.
McGrath, Peter J.	Senior	Manchester, N. H.
McGrath, William J.	Freshman	Worcester, Mass.
McGratty, Arthur R.	Sophomore	Brooklyn, N. Y.
McGratty, Frank L.	Sophomore	Brooklyn, N. Y.
McGuigan, Joseph E.	Freshman	Fall River, Mass.
McGuire, John J., Jr.	Sophomore	New York, N. Y.
McGuire, Joseph P.	Senior	Meriden, Conn.
McHugh, Thomas J.	Sophomore	Peabody, Mass.
McInerney, George T.	Senior	Jersey City, N. J.
McInerney, Walter E.	Sophomore	Jersey City, N. J.
McIntyre, Joseph W.	Freshman	Clinton, Mass.
McKee, John J.	Sophomore	Lorain, Ohio
McKenna, Edward J.	Senior	Pittsfield, Mass.
McKenna, John J.	Sophomore	Boston, Mass.
McKenna, William A.	Junior	Worcester, Mass.
McKeon, John G.	Freshman	Albany, N. Y.
McLaughlin, George A.	Junior	Cranston, R. I.
McMahon, Cornelius P.	Junior	Pittsfield, Mass.
McMahon, Joseph R.	Senior	Pittsfield, Mass.
McMillen, John E.	Freshman	Rochester, N. Y.
McMorrow, William H.	Senior	So. Boston, Mass.
McNamara, John W.	Junior	Clinton, Mass.
McNamara, Leo A.	Senior	Worcester, Mass.
McSheehy, Brendan F.	Senior	Whitinsville, Mass.
Nash, Francis C.	Sophomore	Rochester, N. Y.
Neagle, George E.	Freshman	West Haven, Conn.
Nelligan, William J.	Sophomore	Bangor, Me.

Nicholson, Joseph L.	Freshman	Syracuse, N. Y.
Nixon, William J., Jr.	Freshman	Naugatuck, Conn.
Nokely, Thomas R.	Freshman	Richmond, Va.
Nolan, John J.	Freshman	Worcester, Mass.
Nolan, Richard H.	Senior	Boston, Mass.
Normile, Charles M.	Junior	Cambridge, Mass.
Norton, Joseph W.	Sophomore	Worcester, Mass.
Oberlander, Martin J.	Junior	Brooklyn, N. Y.
O'Brien, Donald F.	Junior	Flushing, L. I., N. Y.
O'Brien, Frederick R.	Freshman	Norwood, Mass.
O'Brien, James F.	Junior	Worcester, Mass.
O'Brien, John J.	Senior	Springfield, Mass.
O'Brien, Stephen J.	Senior	Waterbury, Conn.
O'Brien, Thomas F.	Sophomore	Mineville, N. Y.
O'Brien, William J.	Freshman	Granville, N. Y.
O'Connell, Enos J.	Junior	Thomaston, Conn.
O'Connell, Francis T.	Junior	Torrington, Conn.
O'Connell, James P.	Sophomore	Worcester, Mass.
O'Connell, John B.	Freshman	Worcester, Mass.
O'Connell, John D.	Junior	Marlboro, Mass.
O'Connell, Paul D.	Freshman	Mitteneague, Mass.
O'Connell, Philip J., Jr.	Freshman	Worcester, Mass.
O'Connell, William F.	Freshman	Elmhurst, L. I., N. Y.
O'Connell, William F., Jr.	Sophomore	Worcester, Mass.
O'Connor, Daniel F.	Senior	Worcester, Mass.
O'Connor, Ernest E.	Senior	Portland, Me.
O'Connor, Jeremiah F.	Freshman	New Haven, Conn.
O'Connor, John J.	Freshman	Worcester, Mass.
O'Connor, John J.	Sophomore	Worcester, Mass.
O'Connor, John T., Jr.	Sophomore	Worcester, Mass.
O'Connor, Joseph F.	Freshman	Fitchburg, Mass.
O'Connor, Patrick F.	Freshman	Boston, Mass.
O'Connor, T. Francis	Junior	Lawrence, Mass.
O'Connor, Thomas D.	Sophomore	Fitchburg, Mass.
O'Connor, Thomas J.	Freshman	Worcester, Mass.
O'Connor, William J.	Freshman	Bloomfield, Conn.
O'Donnell, James F.	Senior	Warsaw, N. Y.
O'Donnell, Wilbur F.	Senior	Holyoke, Mass.
O'Donnell, William G.	Junior	Bennington, Vt.
O'Keefe, Francis D.	Junior	Worcester, Mass.
O'Keefe, Matthew J.	Senior	Peabody, Mass.
O'Malley, Austin J.	Sophomore	Manila, P. I.
O'Neil, Everett A.	Freshman	Worcester, Mass.

O'Neill, Daniel J.	Sophomore	Springfield, Mass.
O'Neill, Eldon H.	Freshman	Brockton, Mass.
O'Neill, John M.	Junior	Harrison, N. J.
O'Neill, Joseph G.	Senior	Worcester, Mass.
O'Neill, Robert S.	Freshman	Jersey City, N. J.
O'Reilly, Francis P.	Sophomore	Worcester, Mass.
O'Reilly, John R.	Sophomore	Brooklyn, N. Y.
O'Rorke, Edward A.	Senior	Whitestone, L. I., N. Y.
O'Rourke, Francis W.	Freshman	Worcester, Mass.
O'Shea, John J.	Sophomore	Malden, Mass.
O'Sullivan, Thomas V. L.	Junior	Worcester, Mass.
O'Sullivan, William B.	Sophomore	Lewiston, Me.
O'Toole, John H.	Senior	E. Pepperell, Mass.
Palmer, Richard B.	Freshman	Fitchburg, Mass.
Palmieri, Fiore A.	Senior	New Haven, Conn.
Parent, Leslie M.	Freshman	Westfield, Mass.
Pelletier, Napoleon A.	Senior	Marlboro, N. H.
Percy, John M.	Freshman	New York, N. Y.
Perreault, Homer F.	Sophomore	Worcester, Mass.
Petit, Aime A.	Senior	New Bedford, Mass.
Pettinelli, Anthony F.	Sophomore	So. Milford, Mass.
Philbin, Walter J.	Freshman	Clinton, Mass.
Picardi, Armand A.	Sophomore	Newark, N. J.
Pottemberg, Joseph C.	Freshman	Cambridge, Mass.
Powers, James J.	Junior	Worcester, Mass.
Powers, James V.	Freshman	Worcester, Mass.
Powers, John F.	Freshman	Worcester, Mass.
Powers, John J.	Sophomore	Albany, N. Y.
Powers, Richard J.	Senior	Savannah, Ga.
Price, Thomas J.	Sophomore	Worcester, Mass.
Quinn, Paul M.	Junior	New York, N. Y.
Rafferty, Edmund J.	Junior	Worcester, Mass.
Rafferty, Harold F.	Freshman	So. Glens Falls, N. Y.
Rafferty, Leo E.	Junior	Boston, Mass.
Ray, James H.	Senior	New York, N. Y.
Reavey, Edwin J.	Freshman	Spencer, Mass.
Reilly, Paul S.	Freshman	Jersey City, N. Y.
Reilly, Raymond C.	Senior	Rensselaer, N. Y.
Reilly, Robert B.	Junior	Jersey City, N. J.
Remien, William H.	Sophomore	Chicago, Ill.
Reny, Roland C.	Sophomore	Lewiston, Me.
Reynolds, James P.	Junior	Pittsfield, Mass.
Reynolds, Joseph A.	Freshman	Naugatuck, Conn.

Richard, Raymond J.	Junior	Hartford, Conn.
Rickard, Norman E.	Freshman	Rochester, N. Y.
Ridge, Stephen J.	Sophomore	So. Boston, Mass.
Ridikevich, George J.	Freshman	Worcester, Mass.
Riedl, Paul D.	Sophomore	Worcester, Mass.
Ring, David E.	Sophomore	New Haven, Conn.
Ring, John F.	Junior	Worcester, Mass.
Ritzel, Richard S.	Freshman	New York, N. Y.
Roch, George E.	Junior	No. Grosvenordale, Conn.
Roche, Francis T.	Senior	Palmer, Mass.
Roche, William J., Jr.	Junior	Worcester, Mass.
Rooney, Marshall F.	Sophomore	Nyack, N. Y.
Rooney, Paul J.	Senior	Brattleboro, Vt.
Rourke, William A.	Senior	Worcester, Mass.
Rowe, Kenneth F.	Freshman	Lynn, Mass.
Ryan, Edward B.	Junior	Clifton, N. J.
Ryan, Edward J.	Junior	Waterbury, Conn.
Ryan, Francis J., Jr.	Senior	Brooklyn, N. Y.
Ryan, Gerald T.	Senior	Brooklyn, N. Y.
Ryan, John C.	Junior	Lynn, Mass.
Ryan, V. Gerard	Senior	Ansonia, Conn.
Savage, John J.	Freshman	Worcester, Mass.
Salvato, Henry H.	Sophomore	New York, N. Y.
Santen, Vernon B.	Freshman	Utica, N. Y.
Sayers, John F.	Freshman	New York, N. Y.
Scahill, Thomas P.	Senior	Springfield, Mass.
Scales, Peter E.	Freshman	Worcester, Mass.
Scannell, Andrew W.	Senior	Devon, Conn.
Schopfer, Lysle C.	Freshman	Syracuse, N. Y.
Scully, Joseph W.	Senior	Waterbury, Conn.
Seaman, Robert A.	Sophomore	Brooklyn, N. Y.
Sexton, John J.	Freshman	Worcester, Mass.
Shanahan, Donald G.	Sophomore	Lynn, Mass.
Shanahan, Francis J.	Junior	Forest Hills, Mass.
Shanahan, Henry J.	Junior	Forest Hills, Mass.
Shaw, Raymond E.	Senior	Millbury, Mass.
Shea, Arthur D.	Freshman	Jewett City, Conn.
Shea, John A.	Freshman	Worcester, Mass.
Shea, Leo C.	Senior	Worcester, Mass.
Shea, Thomas F.	Senior	Waterbury, Conn.
Shea, Thomas H.	Freshman	Worcester, Mass.
Shea, Timothy F.	Junior	Worcester, Mass.
Sheehan, Albert T.	Senior	New Haven, Conn.

Sheehan, Edward J.	Freshman	Worcester, Mass.
Sheehan, John D.	Junior	Worcester, Mass.
Sherry, Thomas E.	Senior	Fall River, Mass.
Shields, James I.	Junior	Chicago, Ill.
Shorten, John A.	Junior	Richmond Hill, N. Y.
Siebert, John W., Jr.	Senior	Worcester, Mass.
Silk, Edward F.	Sophomore	Bennington, Vt.
Silvia, Frank M., Jr.	Sophomore	Fall River, Mass.
Sims, Norman F.	Sophomore	Maynard, Mass.
Sitkowski, Anthony J., Jr.	Senior	Webster, Mass.
Slattery, James J.	Junior	Worcester, Mass.
Sloan, Harold C.	Junior	New Haven, Conn.
Sloan, Joseph F.	Freshman	Springfield, Mass.
Smith, Francis M. J.	Freshman	Taunton, Mass.
Smith, John R.	Junior	Binghamton, N. Y.
Smith, Joseph A., Jr.	Freshman	Worcester, Mass.
Smith, Luke L.	Freshman	New Bedford, Mass.
Spain, John H.	Freshman	Troy, N. Y.
Spranz, John F.	Senior	Guttenberg, N. J.
Spranz, William S.	Senior	Guttenberg, N. J.
Spring, Arthur J. M.	Freshman	Worcester, Mass.
Stolle, Alois A.	Freshman	White Plains, N. Y.
Stout, Francis A., Jr.	Senior	Milton, Mass.
St. Arnaud, James A.	Sophomore	Fitchburg, Mass.
Sugrue, Albert J.	Senior	Waterbury, Conn.
Sullivan, Bart E.	Sophomore	West Warren, Mass.
Sullivan, Edward F. K.	Junior	Philadelphia, Pa.
Sullivan, Eugene R.	Junior	Fall River, Mass.
Sullivan, Francis J., Jr.	Sophomore	Brooklyn, N. Y.
Sullivan, George P.	Freshman	Worcester, Mass.
Sullivan, Gerald J.	Junior	Worcester, Mass.
Sullivan, James D.	Freshman	Bristol, R. I.
Sullivan, James D.	Sophomore	Springfield, Mass.
Sullivan, John P.	Senior	Worcester, Mass.
Sullivan, Joseph F.	Freshman	Hoboken, N. J.
Sullivan, Joseph W.	Freshman	Binghamton, N. Y.
Sullivan, Lawrence M.	Senior	Jersey City, N. J.
Sullivan, Michael C.	Senior	Worcester, Mass.
Sullivan, Robert J., Jr.	Junior	West Hartford, Conn.
Sullivan, Walter F.	Freshman	Worcester, Mass.
Sullivan, Walter J.	Senior	E. Pepperell, Mass.
Sullivan, William J.	Junior	N. Grafton, Mass.
Sweeney, Charles J.	Junior	Framingham, Mass.

Sweeney, Edmund M.	Senior	Waterville, Me.
Sweeney, Eugene M.	Junior	Worcester, Mass.
Sweeney, John J.	Freshman	Worcester, Mass.
Sweeney, John J. M.	Freshman	Worcester, Mass.
Sweeney, Robert L.	Senior	Binghamton, N. Y.
Sweeney, Thomas J.	Senior	Worcester, Mass.
Syseskey, Henry J.	Freshman	Worcester, Mass.
Talbot, Felix F.	Freshman	Boston, Mass.
Tangney, Robert A.	Freshman	Worcester, Mass.
Taylor, Christopher J.	Freshman	Brooklyn, N. Y.
Thompson, Raymond M.	Senior	Worcester, Mass.
Timon, John J.	Junior	Worcester, Mass.
Tobin, Robert T.	Freshman	Portland, Me.
Tougas, Raymond F.	Senior	N. Brookfield, Mass.
Toye, William A.	Freshman	Lawrence, Mass.
Trainor, Joseph X.	Junior	Cambridge, Mass.
Trainor, Thomas F.	Freshman	Cambridge, Mass.
Tressy, John J.	Sophomore	Ithaca, N. Y.
Trinnier, John A.	Senior	Whitinsville, Mass.
Troy, William D.	Freshman	Stamford, Conn.
Tucker, Joseph F.	Junior	Montclair, N. J.
Tuttle, Harry F.	Senior	Worcester, Mass.
Valicenti, Mitchel J.	Junior	S. Plainfield, N. J.
Verdon, Alexander J.	Senior	Hoboken, N. J.
Vigeant, Roland H.	Freshman	Worcester, Mass.
Visk, Everist C.	Junior	Chicago, Ill.
Vogel, Francis H.	Sophomore	Winthrop, Mass.
Waldert, Leo W.	Junior	Rochester, N. Y.
Walker, John A.	Freshman	Lowell, Mass.
Wallace, Thomas P.	Freshman	Brooklyn, N. Y.
Walsh, Daniel M., Jr.	Senior	Springfield, Mass.
Walsh, Edmund B.	Sophomore	Worcester, Mass.
Walsh, Francis X.	Junior	New York, N. Y.
Walsh, Thomas J.	Junior	Worcester, Mass.
Walsh, William A.	Freshman	Pittsburgh, Pa.
Walton, Thomas C. J.	Sophomore	Springfield, Mass.
Ward, Arthur P.	Sophomore	Fitchburg, Mass.
Ward, Charles W.	Junior	So. Norwalk, Conn.
Webster, James B.	Senior	Hicksville, N. Y.
Welch, Dominic J.	Freshman	Taunton, Mass.
Welch, John T.	Sophomore	Fall River, Mass.
Weldon, Edward J.	Junior	New York, N. Y.
Welsh, John J.	Senior	Manchester, N. H.

Welsh, Richard J.	Freshman	Manchester, N. H.
Welz, William B.	Senior	No. Adams, Mass.
Wessell, George F.	Junior	Kenmore, N. Y.
Westhead, Andrew	Junior	Worcester, Mass.
Whelan, Charles S.	Senior	Worcester, Mass.
White, James J.	Junior	New York, N. Y.
Whiteford, Harry D.	Sophomore	Newark, Ohio
Whitfield, Robert D.	Sophomore	Albany, N. Y.
Williams, Edwin A. T.	Senior	So. Boston, Mass.
Williams, Thomas J.	Freshman	Brockton, Mass.
Winsper, James G.	Junior	So. Dartmouth, Mass.
Wolanin, Alphonse S.	Freshman	Worcester, Mass.
Wondolowski, Stanislaus G.	Freshman	Worcester, Mass.
Wood, John B.	Freshman	Pittsburgh, Pa.
Woods, Donald H.	Freshman	Brooklyn, N. Y.
Woods, William H.	Sophomore	W. Brighton, S. I., N. Y.
Wynn, Francis J.	Senior	Worcester, Mass.
Wynne, John W.	Freshman	Worcester, Mass.
Xiques, Edward F.	Sophomore	Staten Island, N. Y.
Yakavonis, Casimer J.	Freshman	Brockton, Mass.
Zeller, William C.	Freshman	Defiance, Ohio

PHILOSOPHY COURSE

Alex, John	Freshman	Meriden, Conn.
Alzerini, Alfred W.	Junior	Milford, Mass.
Anderson, Edwin J.	Freshman	Bangor, Me.
Anketell, Theodore F.	Freshman	Gardiner, Me.
Baker, Henry J.	Sophomore	Southboro, Mass.
Baril, Arthur C., Jr.	Sophomore	Spencer, Mass.
Barry, Louis J., Jr.	Freshman	Newport, R. I.
Baxter, Frederick G.	Freshman	Worcester, Mass.
Bergen, Edward J.	Sophomore	Somerville, Mass.
Blaum, Francis A.	Freshman	Wilkes-Barre, Pa.
Bove, Peter A.	Senior	Rutland, Vt.
Broderick, Maurice A.	Sophomore	Manchester, N. H.
Burns, James D.	Sophomore	Lowell, Mass.
Burns, Reginald A.	Senior	Torrington, Conn.
Byrne, Patrick J.	Sophomore	Washington, D. C.
Cahill, J. Francis	Senior	Milford, Mass.
Callahan, John L.	Freshman	Malden, Mass.
Carnicelli, Thomas J.	Junior	Winthrop, Mass.

Carroll, George L.	Freshman	Worcester, Mass.
Carroll, James J.	Freshman	Syracuse, N. Y.
Cavalieri, James A.	Freshman	E. Boston, Mass.
Celichowski, Eugene R.	Sophomore	Milwaukee, Wis.
Clark, Edward F.	Sophomore	Roslindale, Mass.
Clayborne, Thomas E.	Freshman	Worcester, Mass.
Colucci, Anthony, Jr.	Freshman	Woburn, Mass.
Connolly, Gerard D.	Sophomore	New York, N. Y.
Connolly, James J.	Junior	Salem, Mass.
Connolly, John P.	Sophomore	Jamaica Plain, Mass.
Connors, Frank R.	Senior	Salem, Mass.
Connors, Maurice J.	Senior	Waterbury, Conn.
Costich, Kenneth J.	Freshman	Rochester, N. Y.
Coughlan, James W.	Senior	Boston, Mass.
Coughlin, Raymond C.	Freshman	Hoboken, N. J.
Cravedi, Alfred P.	Sophomore	Worcester, Mass.
Crombie, George D.	Sophomore	Thompsonville, Conn.
Crowley, Charles J.	Freshman	Brighton, Mass.
Daly, John L.	Freshman	Warehouse Point, Conn.
Desautels, Eugene A.	Junior	Quinebaug, Conn.
Dobens, Raymond J.	Senior	Nashua, N. H.
Doherty, Chales H.	Freshman	Chicopee, Mass.
Donahue, Robert W.	Junior	Proctor, Vt.
Donovan, Edward J.	Freshman	Newport, R. I.
Donovan, Thomas L.	Freshman	Auburndale, Mass.
Doyle, Henry A.	Freshman	Worcester, Mass.
Dowling, Edward P.	Senior	Framingham, Mass.
Drais, W. Ronald	Senior	Syracuse, N. Y.
Driscoll, Charles E.	Freshman	Whitinsville, Mass.
Dunphy, Edwin P.	Freshman	Northampton, Mass.
Egan, George F.	Sophomore	Jersey City, N. J.
Elwood, David M.	Sophomore	Worcester, Mass.
Farrell, James J.	Sophomore	Washington, D. C.
Farrell, Thomas F., Jr.	Junior	Wilkes-Barre, Pa.
Favulli, Michael J.	Freshman	Worcester, Mass.
Fay, Joseph J.	Freshman	Newton Centre, Mass.
Finn, Edward L.	Freshman	Northampton, Mass.
Fisher, Andrew P.	Junior	New York, N. Y.
Fitzgerald, Donald J. H.	Sophomore	Southbridge, Mass.
Fitzgerald, James P.	Senior	Wakefield, Mass.
Fitzgibbon, George W.	Senior	Worcester, Mass.
Flanagan, Edward F.	Sophomore	Lowell, Mass.
Fraser, Clarence K.	Sophomore	Somerville, Mass.

Friederick, Robert G.	Sophomore	Cincinnati, Ohio
Gahan, Theodore P.	Senior	Medford, Mass.
Galkowski, Joseph S.	Freshman	Worcester, Mass.
Gannon, Edward M.	Junior	Syracuse, N. Y.
Garrity, Francis J.	Sophomore	Boston, Mass.
Gately, Alphonsus P.	Junior	Rockville Center, N. Y.
Ginter, Charles D.	Freshman	Nanticoke, Pa.
Goonan, Thomas J.	Sophomore	Manchester, N. H.
Graham, John L.	Sophomore	Boston, Mass.
Grigaitis, Joseph J.	Freshman	Worcester, Mass.
Gutierrez, Victor M.	Junior	Santurce, P. R.
Hackett, Thomas A.	Freshman	Worcester, Mass.
Hally, James T.	Freshman	Detroit, Mich.
Hannigan, Joseph E.	Senior	Worcester, Mass.
Harrington, Joseph R.	Junior	Arlington, Mass.
Hassett, J. Frank	Junior	Worcester, Mass.
Havens, George F.	Sophomore	Hartford, Conn.
Hayes, George F.	Sophomore	Cleveland, Ohio
Hebert, Eugene H.	Junior	Westbrook, Me.
Hennebry, James C.	Freshman	Framingham, Mass.
Hickey, John E.	Freshman	Worcester, Mass.
Himmelberg, Theodore J.	Sophomore	Washington, D. C.
Hurley, Charles	Junior	Portsmouth, N. H.
Hurley, Cornelius K.	Senior	Gardner, Mass.
Jarvis, Lloyd A.	Freshman	Jewett City, Conn.
Kane, Thomas F.	Junior	Hartford, Conn.
Kearnan, William R.	Senior	Whitinsville, Mass.
Kerrigan, William J.	Junior	Fall River, Mass.
Kiely, Kendall H.	Junior	Providence, R. I.
Kittredge, Paul J.	Senior	Clinton, Mass.
Klarman, Walter J.	Freshman	New Haven, Conn.
Klumbach, Harold F.	Junior	New York, N. Y.
Kucharski, Theodore M.	Junior	Exeter, N. H.
Lawrence, Henry U.	Junior	Montagne, Mass.
Leary, Edwin A.	Junior	Arlington, Mass.
Lee, Robert E., Jr.	Junior	Cincinnati, Ohio
Lynch, John C., Jr.	Freshman	Milford, Mass.
MacDonnell, Arthur J.	Freshman	So. Boston, Mass.
Macek, James J.	Sophomore	Manchester, N. H.
Macken, Luke J.	Sophomore	Pittsfield, Mass.
MacLaughlan, John J.	Freshman	Lowell, Mass.
Madden, William F., Jr.	Sophomore	Waltham, Mass.
Madden, William J.	Junior	Brockton, Mass.

Maffeo, Alfred A.	Junior	Fitchburg, Mass.
Maguire, Paul J.	Junior	Somerville, Mass.
Mahaney, John V.	Senior	Biddeford, Me.
Mahoney, John S.	Junior	Greenfield, Mass.
Malboeuf, Leo W.	Freshman	Worcester, Mass.
Manfreda, Anthony R.	Junior	Rutland, Vt.
Manzi, John E.	Sophomore	Worcester, Mass.
Marcello, Ralph T.	Freshman	New Haven, Conn.
Marks, James J.	Junior	Lynn, Mass.
Marshall, John J.	Freshman	Dorchester, Mass.
Meade, Thomas H.	Sophomore	Dorchester, Mass.
Meegan, Joseph R.	Sophomore	Brookline, Mass.
Mikelski, Michael J.	Senior	Plains, Pa.
Miller, William G.	Junior	Fitchburg, Mass.
Monahan, William F.	Sophomore	Ardmore, Pa.
Moran, Thomas W.	Junior	Springfield, Mass.
Morin, George A.	Sophomore	Spencer, Mass.
Morris, John J., Jr.	Senior	Washington, D. C.
Murphy, David J.	Junior	Marlboro, Mass.
Murphy, John V.	Senior	Cambridge, Mass.
Murphy, Thomas J.	Junior	Worcester, Mass.
McCool, John F.	Sophomore	Bethlehem, Pa.
McKenney, Miles G.	Freshman	Pittsburgh, Pa.
McLaughlin, Francis E.	Junior	Saco, Me.
McMahon, Raymond J.	Sophomore	Johnson City, N. Y.
McRell, William F.	Junior	Clinton, Mass.
Nekola, Francis J.	Junior	New York, N. Y.
Nolan, William R.	Freshman	Roxbury, Mass.
O'Brien, John D.	Sophomore	Rochester, N. Y.
O'Connell, Edward A.	Sophomore	New York, N. Y.
O'Connell, Philip E.	Freshman	Brockton, Mass.
O'Donnell, Edward K.	Junior	Salem, Mass.
O'Keefe, Roland A.	Senior	Middleboro, Mass.
O'Leary, Thomas B.	Senior	Hartford, Conn.
O'Reilly, Vincent P.	Junior	Worcester, Mass.
Pekalski, Edward F.	Freshman	Greenfield, Mass.
Pekalski, Stanley J.	Freshman	Greenfield, Mass.
Perry, Thomas F.	Sophomore	Bangor, Me.
Phelan, Richard J.	Senior	Medford, Mass.
Pyne, George F.	Sophomore	Milford, Mass.
Reidy, Michael J.	Sophomore	Worcester, Mass.
Riley, William J.	Freshman	Warren, Mass.
Rooney, Edward D.	Freshman	Watertown, Mass.

Russell, Edwin N.	Sophomore	New York, N. Y.
Serbent, Stephen A.	Sophomore	New York, N. Y.
Shevlin, James C.	Junior	Cincinnati, Ohio
Smith, Samuel D.	Freshman	Worcester, Mass.
Stokes, William J.	Freshman	Naugatuck, Conn.
Sugrue, John R.	Senior	Waterbury, Conn.
Sullivan, Cornelius J.	Sophomore	Providence, R. I.
Sullivan, John F.	Senior	Worcester, Mass.
Sweeney, Patrick M.	Junior	Providence, R. I.
Sweeney, William F.	Junior	Plattsburgh, N. Y.
Tierney, Edmund F.	Freshman	Worcester, Mass.
Tierney, Matthew R.	Junior	New Haven, Conn.
Tracy, Paul B.	Sophomore	Bristol, Conn.
Tranfaglia, Henry L.	Freshman	Revere, Mass.
Wagner, Richard F.	Sophomore	Adrian, Mich.
Watrous, Richard F.	Junior	Brooklyn, N. Y.
Weiss, Stanley E.	Sophomore	Syracuse, N. Y.
White, Francis J.	Sophomore	Worcester, Mass.
Wilson, Edward F.	Freshman	New Haven Conn.
Wlodyka, Edward J.	Freshman	Fairhaven, Mass.

SCIENCE COURSE

Barousse, Carlos J.	Freshman	Mexico City, Mexico.
Bell, Robert A.	Freshman	Bangor, Me.
Besselman, Wayne L.	Sophomore	E. Braintree, Mass.
Bird, Samuel D.	Senior	Freeport, L. I., N. Y.
Browne, George S.	Senior	New Haven, Conn.
Burns, Thomas F.	Senior	Worcester, Mass.
Chenis, John K.	Junior	Worcester, Mass.
Christensen, Thomas A.	Sophomore	Newport, R. I.
Ciesielski, Casimir P.	Freshman	So. River, N. J.
Clifford, Christopher J.	Freshman	Brockton, Mass.
Connolly, Richard F.	Sophomore	Salem, Mass.
Connor, James J.	Sophomore	Worcester, Mass.
Crowe, Robert S.	Sophomore	Unionville, Conn.
Curley, John M.	Sophomore	Portland, Me.
D'Argenis, David C.	Sophomore	Worcester, Mass.
Dolan, Arthur T.	Freshman	Leominster, Mass.
Donoghue, Florence F.	Junior	Worcester, Mass.
Doyle, William G.	Junior	Springfield, Mass.
Drohan, James E.	Sophomore	Brockton, Mass.
Ferretti, Lewis J.	Sophomore	New Haven, Conn.

Finn, Joseph L.	Sophomore	Wilkes-Barre, Pa.
Goett, Harry J.	Sophomore	New York, N. Y.
Gonzalez, Salvador	Freshman	Santurce, P. R.
Goyette, Cyril A.	Freshman	Mystic, Conn.
Granger, Walter W.	Senior	Worcester, Mass.
Griffin, Leslie B.	Freshman	Everett, Mass.
Halloran, John B.	Junior	New Bedford, Mass.
Hand, Francis J.	Senior	Webster, Mass.
Hill, Frank T.	Senior	New Haven, Conn.
Hobart, Leon J.	Junior	Hitchcock, S. D.
Keating, Jerome F.	Sophomore	Gorham, Me.
Kendrtarvich, John A.	Junior	Worcester, Mass.
Kilcoyne, George R.	Freshman	Clinton, Mass.
Kirchner, William J.	Junior	Lanesboro, Mass.
Lynch, Thomas F.	Senior	Waterbury, Conn.
Matelis, Edward S.	Senior	Baltimore, Md.
Moffitt, William P., Jr.	Freshman	Wilkes-Barre, Pa.
Monahan, John T.	Freshman	Worcester, Mass.
Moylan, Francis J.	Sophomore	Milton, Mass.
Murphy, Thomas F.	Freshman	Worcester, Mass.
O'Halloran, Donald M.	Senior	Worcester, Mass.
Petrosi, John J.	Sophomore	Rochester, N. Y.
Ring, William J.	Senior	Worcester, Mass.
Sanchez, Louis T.	Sophomore	Condado, P. R.
Skehan, Charles J.	Freshman	Gardiner, Me.
Sliney, James G.	Sophomore	Brighton, Mass.
Stankard, Martin F., Jr.	Sophomore	Waltham, Mass.
Stevens, John M.	Sophomore	Framingham, Mass.
Sullivan, Edmund B.	Freshman	Worcester, Mass.
Sullivan, John A.	Freshman	Jersey City, N. J.
Sulya, Luis L.	Freshman	No. Monmouth, Me.
Travers, Frank	Senior	Worcester, Mass.
Varela, Frank G.	Freshman	Tenafly, N. J.
Weldon, Maur J.	Freshman	New Haven, Conn.
Wondolowski, Joseph P.	Junior	Worcester, Mass.
Young, Edmund J., Jr.	Freshman	Lowell, Mass.

Excerpt from Baccalaureate Sermon by Fr. Bonaventure McHugh, C.P.,
May 24, 1925.

"During your sojourn here the principles of Catholic Philosophy have been instilled into your minds and hearts. They have taught you that truth is not one thing today and another thing tomorrow, but an element that never changes with the vagaries of systems or the idiosyncrasies of individuals. With its law and characteristics you have learned to deal frankly and fearlessly, and you know that your faith has nothing to fear from its scrutiny or its behests.

"The vaporings of so-called men of learning and research on the origin of life, and its processes of development have no terrors for you. You can distinguish between fact and fiction and you will not be enthused by the hypotheses that may vanish before the ink that places them on record has changed its hue. You insist that God is the Absolute and Universal Cause of the world, and you will not yield consent to the contrary until you are brought face to face with new evidence that is something more than garbled information and fantastic speculation.

"You are in accord with the theory that gives the human soul its proper place in the economy of life. To you it is not a momentary blaze shining through the medium of bone and sinew, but the underlying force that galvanizes all the manifestations of thought and consciousness. You believe that, although it came into being with you, it will endure long after the frame that enshrines it shall have lapsed into the eddies of the dust. To you, men are not irresponsible creatures of heredity or habit or environment. They are endowed with God-given freedom that is at once their crowning glory and the arbiter of their destiny. With it they can rise to the most sublime heights of sacrifice and they can overcome the most alluring suggestions to compromise with the dictates of the conscience or the salutary decree of duty.

"Educated in a Catholic college, you are the custodians of a code of Ethics that has the solution, the only solution, to the questions that will ever agitate and harass men's minds. You are not buffeted about by every wind of doctrine, but you are moved to principles of right and conduct that alone can enable you to lead lives in harmony with your origin and in keeping with your destiny."